This Manual Must Be Read Before Operating The Equipment

Owner / Operator's Manual

SnowEx®

Spreaders for Snow & Ice Control

FOR MODELS

Sand-Pro 1875
Pivot-Pro 1075
Mini-Pro 575
Micro-Pro 375
Junior 325

TrynEx® INTERNATIONAL

CUSTOMER COPY

Warren, Michigan 48089
800-725-8377

Protected by the following patents, #6,089,478, #6,088,865, #Des.425,915
and other pending U.S. and foreign patent applications.

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This manual has been designed for your help. It will assist you and instruct you on the proper set-up, installation and use of this spreader.

Refer to the table of contents for an outline of this manual.

We require that you read and understand the contents of this manual completely (especially all safety information) before attempting any procedure contained herein.

THIS SIGN SHOULD ALERT YOU:
The Society of Automotive Engineers has adopted this SAFETY ALERT SYMBOL to pinpoint characteristics that, if NOT carefully followed, can create a safety hazard. When you see this symbol in this manual or on the machine itself, BE ALERT! Your personal safety and the safety of others is involved.

Defined below are the SAFETY ALERT messages and how they will appear in this manual:

(RED)
Information that, if not carefully followed, can cause death!

(ORANGE)
Information that, if not carefully followed, can cause serious personal injury or death!

(YELLOW)
Information that, if not carefully followed, can cause minor injury or damage to equipment.

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You have purchased a member of the **SnowEx Snow & Ice family,** an advanced concept in snow and ice control.

Our unique design allows many material spreading applications to be addressed. The modular concept allows multiple hitch variations using the same spreader attachments to meet different vehicle types and varied spreading requirements.

Your **SnowEx Spreader** may be attached to many types of vehicles ranging from pick-up trucks, sport utilities, tractors, utility vehicles, etc.

The simplicity of construction using high quality steel and deluxe electrostatic finish requires minimal maintenance.

Our poly hopper with custom engineered frame structure, state-of-the-art electronic controller coupled with hi-torque drive assembly will give you ultimate performance and control when spreading.

Trynex reserves the right to make any changes or improve the design of any parts and not be obligated to make changes on units previously sold.

Registration

Record the following information in this manual for quick reference.

Spreader Model Number _____

Spreader Serial Number _____ Controller Serial Number _____

Date of Purchase _____

Dealer Where Purchased _____

When ordering parts, the above information is necessary. This will help to insure that you receive the correct parts.

At the right is a diagram of the ID tag. This tag on the spreader is located on the frame.

Please fill out the warranty card with all the necessary information to validate it. This will also give us a record so that any safety or service information may be communicated to you.

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DANGER **WARNING** **CAUTION**

Before attempting any procedure in this book, these safety instructions must be read and understood by all workers who have any part in the preparation or use of this equipment.

For your safety warning and information decals have been placed on this product to remind the operator of safety precautions.
If anything happens to mark or destroy the decals, please request new ones from Trynex, International.

WARNING **Remember** most accidents are preventable and caused by human error. **Exercising of care and precautions must be observed to prevent the possibility of injury to operator or others!**

WARNING **Never** operate equipment when under the influence of alcohol, drugs, or medication that might alter your judgment and/or reaction time.

WARNING Before working with the spreader, secure all loose fitting clothing and unrestrained hair.

WARNING Always wear safety glasses with side shields when working metal against metal. Failure to do this could result in serious injury to the eyes.

WARNING **Never** allow children to operate or climb on equipment.
Never weld or grind on equipment without having a fire extinguisher available.
Always check areas to be spread to be sure no hazardous conditions or substances are in the area.
Always inspect unit for defects: broken, worn or bent parts, weakened areas on spreader or mount.

WARNING **Always shut off** vehicle and power source before attempting to attach or detach or service spreader unit. Be sure vehicle/power source is properly braked or chocked.

WARNING **Always make sure personnel are clear** of areas of danger when using equipment.

WARNING Always keep hands, feet, and clothing away from power-driven parts.

WARNING **Remember** it is the owner's responsibility to communicate information on safe usage and proper maintenance of all equipment.

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WARNING Never exceed 45 m.p.h. when loaded spreader is attached to vehicle. Braking distances may be reduced and handling characteristics may be impaired at speeds above 45 m.p.h.

CAUTION Never use wet materials, or materials with foreign debris in the SP-375, SP-575 and SP-1075. These units are designed to handle dry, clean, free-flowing material. **Note: Can not spread water softener salt.**

CAUTION Never leave material in hopper for long periods of time. Be aware that all ice melters are hygroscopic and will attract atmospheric moisture and harden up.

WARNING Always inspect pins, and latches whenever attaching or detaching spreader, and before traveling.

WARNING Inspect the unit periodically for defects. Parts that are broken, missing, or worn out must be replaced immediately. The unit, or any part of it should not be altered without prior written permission from the manufacturer.

WARNING When using pivot mount, **NEVER** swing spreader with material in hopper.

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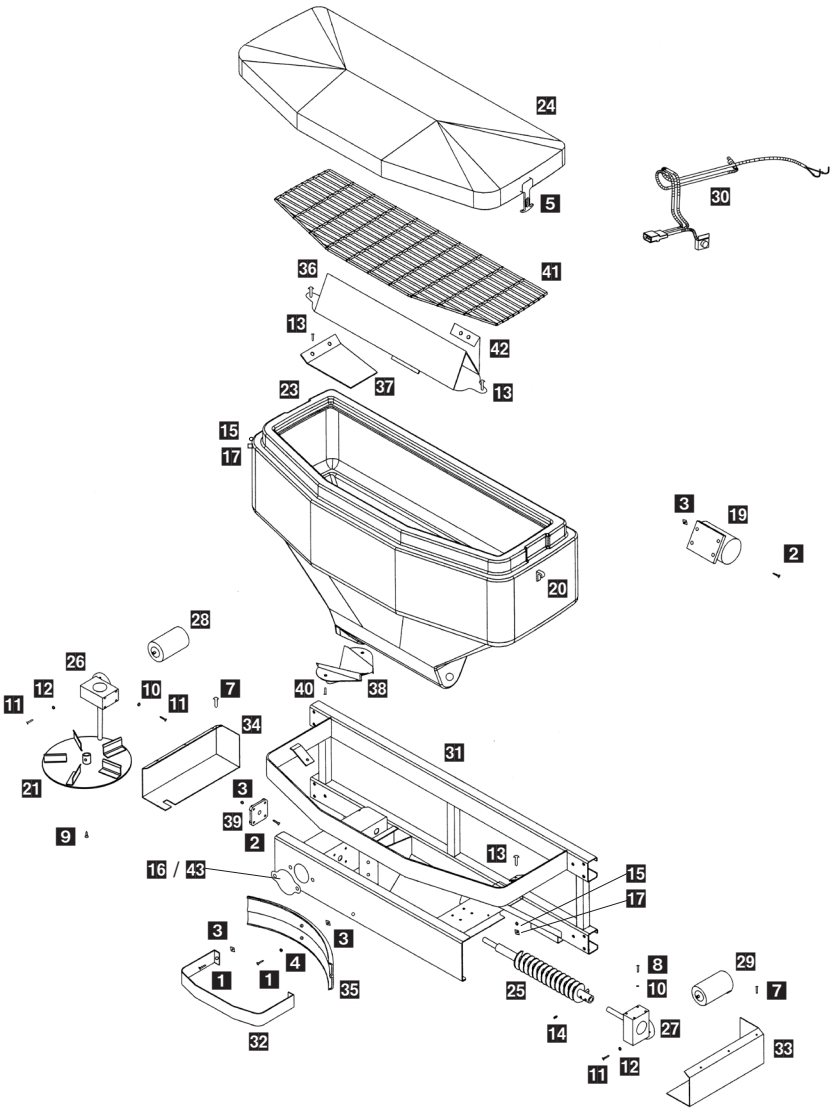
Sand Pro Spreader

Model #SP-1875



Key	Part No.	Description	Qty.
1	D4121	3/8-16x1” Hex Bolt	4
2	D4122	3/8-16x1-1/2” Hex Bolt	4
3	D4124	3/8-16 Lock Nut	8
4	D4125	3/8” Flat Washer	2
5	D6105	Flexible Draw Latch	2
6	D6127	Cord Strain Relief	2
7	D6130	3/16'' Aluminum Rivit	12
8	D6132	1/4”-20 x 3/4” SS Hex Bolt	8
9	D6133	5/16-18 x 1/2” Hex Bolt	1
10	D6134	1/4'' Stainless Lock Washer	8
11	D6135	10/32 x 5/8” Cap Screw	4
12	D6136	10/32 Lock Washer	4
13	D6137	5/16-18 x 1” Pan Head SS Bolt	6
14	D6140	5/16-18 x 3/8” Set Screw	2
15	D6155	5/16” Lock Washer	6
16	D6356	Bearing Access Cover	1
17	D6168	5/16” Hex Nut	6
18	D6169	3/8” SS Flat Washer	2
19	D6174	DC-80 Vibrator	1
20	D6198	Latch Keeper	2
21	D6225	12” Steel Spinner	1
22	D6232	Motor Trans Coupler	2
23	D6313	1875 Hopper	1
24	D6314	1875 Lid	1
25	D6315	Auger	1
26	D6317	Spinner Transmission	1
27	D6501	Auger Transmission	1
28	D6319	Spinner Motor	1
29	D6320	Auger Motor	1
30	D6321	1875 Power cord-48''	1
31	D6323	1875 Frame	1
32	D6324	Trim Ring	1
33	D6325	Right Hand Motor Cover	1
34	D6326	Left Hand Motor Cover	1
35	D6327	Plastic Deflector	1
36	D6328	Inverted V-Support	1
37	D6330	Material Baffle	1
38	D6331	Chute	1
39	D6332	Auger Shaft Bearing	1
40	D6333	3/16” Rivet, Long	2
41	D6334	Top Screen	1
42	D6337	Inverted V-Mount Brkt	1
43	D6877	Self Tap Screw Set	2

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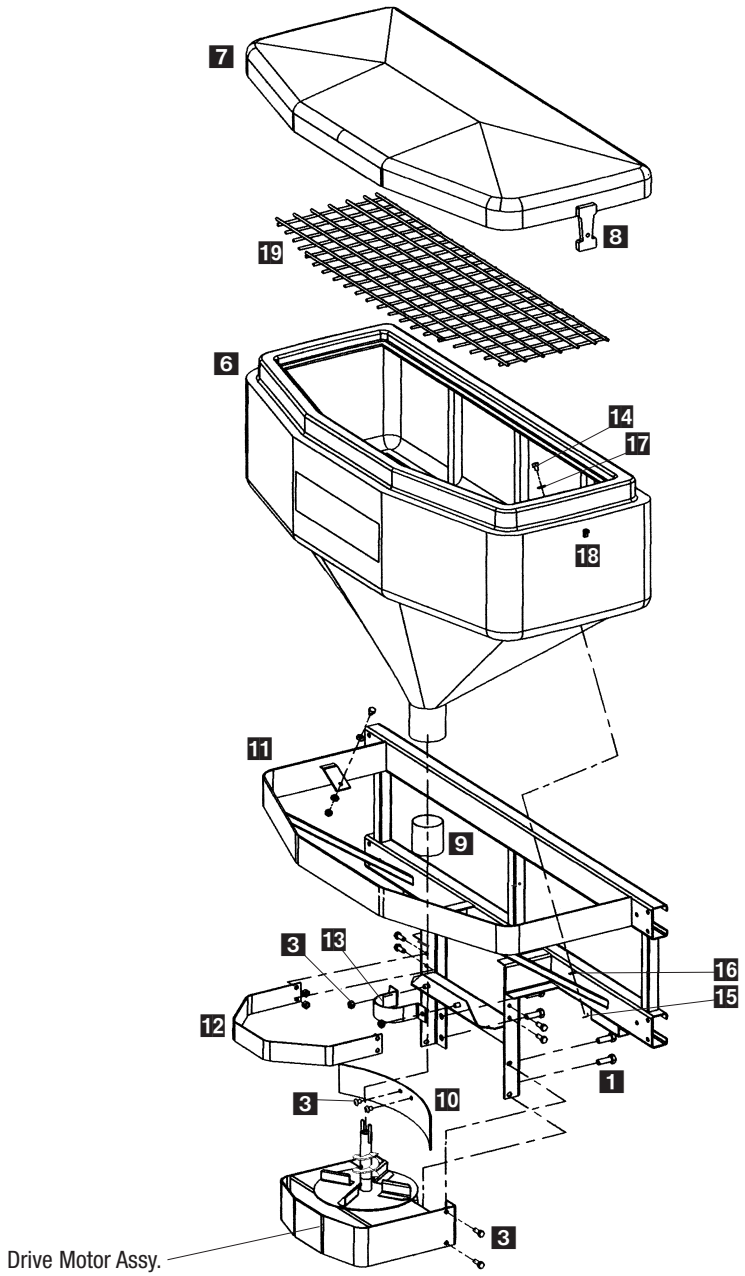
Pivot Pro Spreader

Model #SP-1075



Key	Part No.	Description	Qty.
1	D 4115	1/2"-13x1" Hex Bolt	4
2	D 4120	1/2"-Locknut	4
3	D 4121	3/8"-16 x 1" Hex Bolt	4
4	D 4124	3/8"-Locknut	6
5	D 4125	3/8" -Flat Washer	2
6	D 6262	1075 Hopper	1
7	D 6263	1075 Lid W/Latches	1
8	D 6105	Flexible Draw Latch	2
9	D 6108	Stainless Throat Liner	1
10	D 6110	Deflector - 20"	1

Key	Part No.	Description	Qty.
11	D 6260	1075 Main Frame	1
12	D 6128	Spinner Guard	1
13	D 6129	Throat Clamp	1
14	D 6137	5/16"-18 x 1 1/4" Stainless Panhead Phillips Bolt	2
15	D 6155	5/16" -Lock Washer	2
16	D 6168	5/16" -Hex Nut	2
17	D 6169	3/8" -S.S. Washer	2
18	D 6198	Latch Keeper	2
19	D 6261	1075 Top Screen	1

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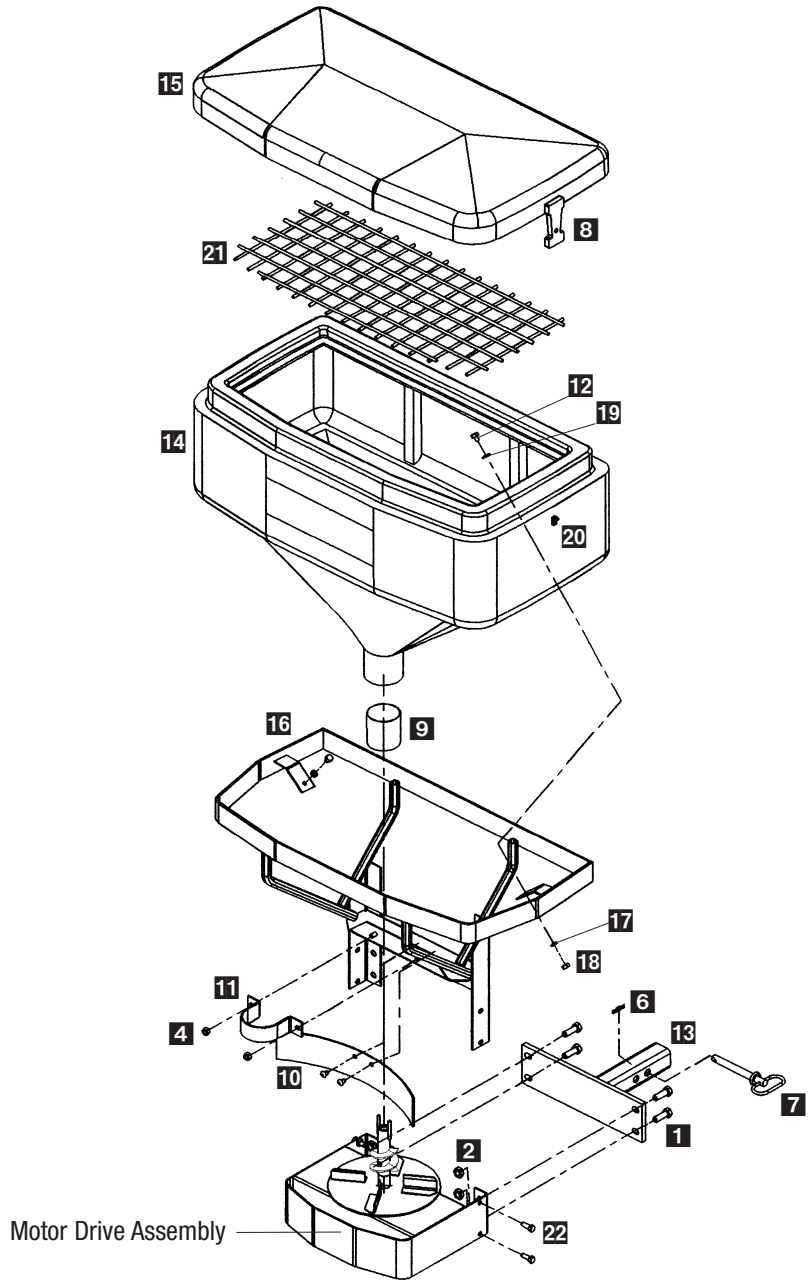
Mini Pro Spreader

Model #SP-575



Key	Part No.	Description	Qty.
1	D 4116	1/2"-13 x 1 1/2" Hexbolt	8
2	D 4120	1/2"-Lock Nut	4
3	D 6463	Deflector Push Fastener	2
4	D 4124	3/8"-Lock Nut (Serrated)	2
5	D 4125	3/8" Flat Washer	2
6	D 4135	2 - 5/16'' Hair Pin Clip	1
7	D 4136	5/8" x 5-1/2" Hitch Pin	1
8	D 6105	Flexible Draw Latch	2
9	D 6108	Stainless Throat Liner	1
10	D 6110	Deflector 20"	1
11	D 6129	Throat Clamp	1

Key	Part No.	Description	Qty.
12	D 6137	5/16"-18x1 1/4" Stainless Pan Head Phillips Bolt	2
13	D 6149	2" Receiver Hitch	1
14	D 6239	575 Hopper	1
15	D 6240	575 Lid W/Latches	1
16	D 6245	575 Main Frame	1
17	D 6155	5/16" lock washer	2
18	D 6168	5/16"-Hex Nut	2
19	D 6169	3/8" S/S Washer	2
20	D 6198	Latch Keeper	2
21	D 6257	575 Top Screen	1
22	D 6452	3/8"-16 x 1" IND HWH TCS	4

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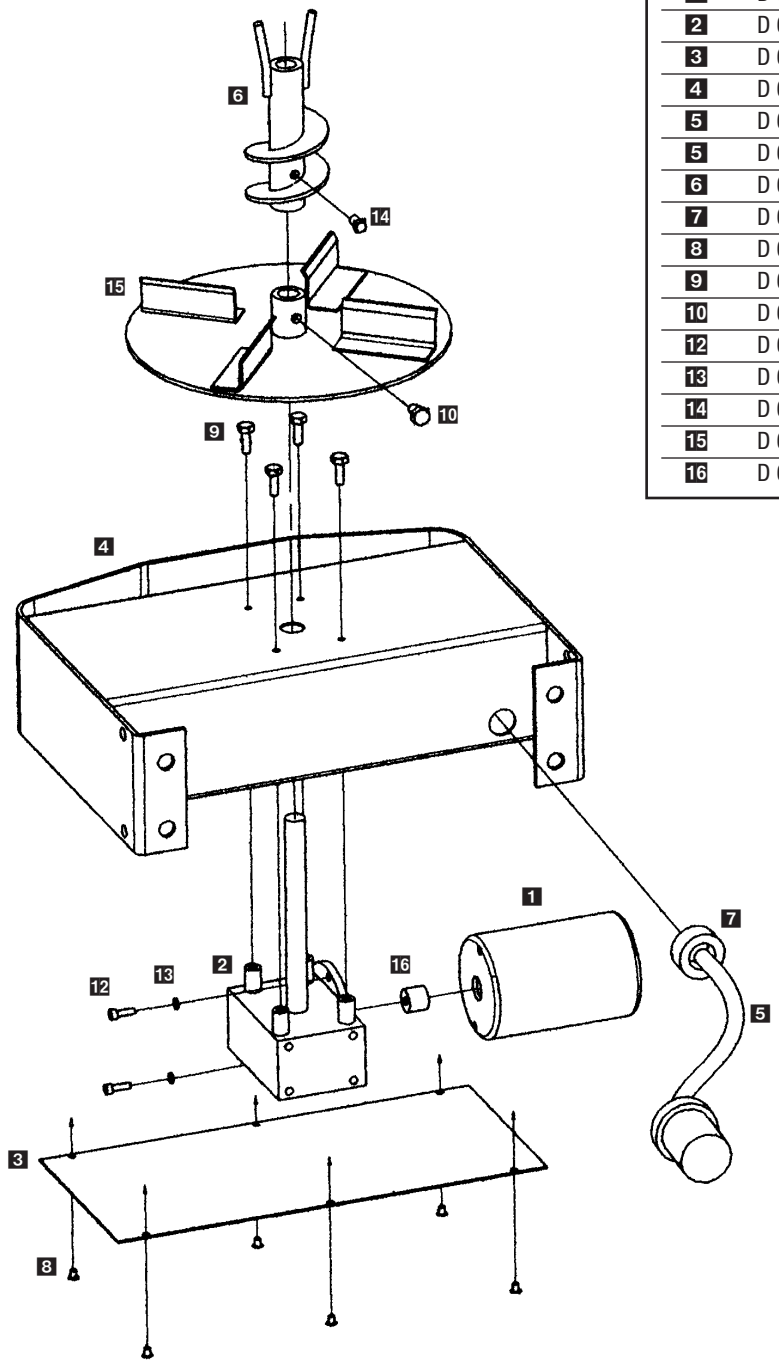
Complete Drive Assembly

SP-575 – D6117 SP-1075 – D6175

2000 – Current



Key	Part No.	Description	Qty.
1	D 6106	Motor 12 Volt DC	1
2	D 6107	Transmission	1
3	D 6109	Motor Cover	1
4	D 6111	Drive Enclosure	1
5	D 6115	1075 Power Cable	1
5	D 6162	575 Power Cable	1
6	D 6122	Auger	1
7	D 6127	Cord Restraint w/Nut	1
8	D 6467	Plastic Push Fastener	6
9	D 6131	1/4"-20 x 1/2" Hex Bolt Stainless	4
10	D 6133	5/16"-18 x 1/2" Hex Bolt	1
12	D 6135	#10-32 x 5/8" Cap Screw	2
13	D 6136	#10 Lock Washer	2
14	D 6140	5/16"-18 x 3/8" Set Screw	1
15	D 6224	10” Steel Spinner	1
16	D 6232	Motor Drive Coupler	1

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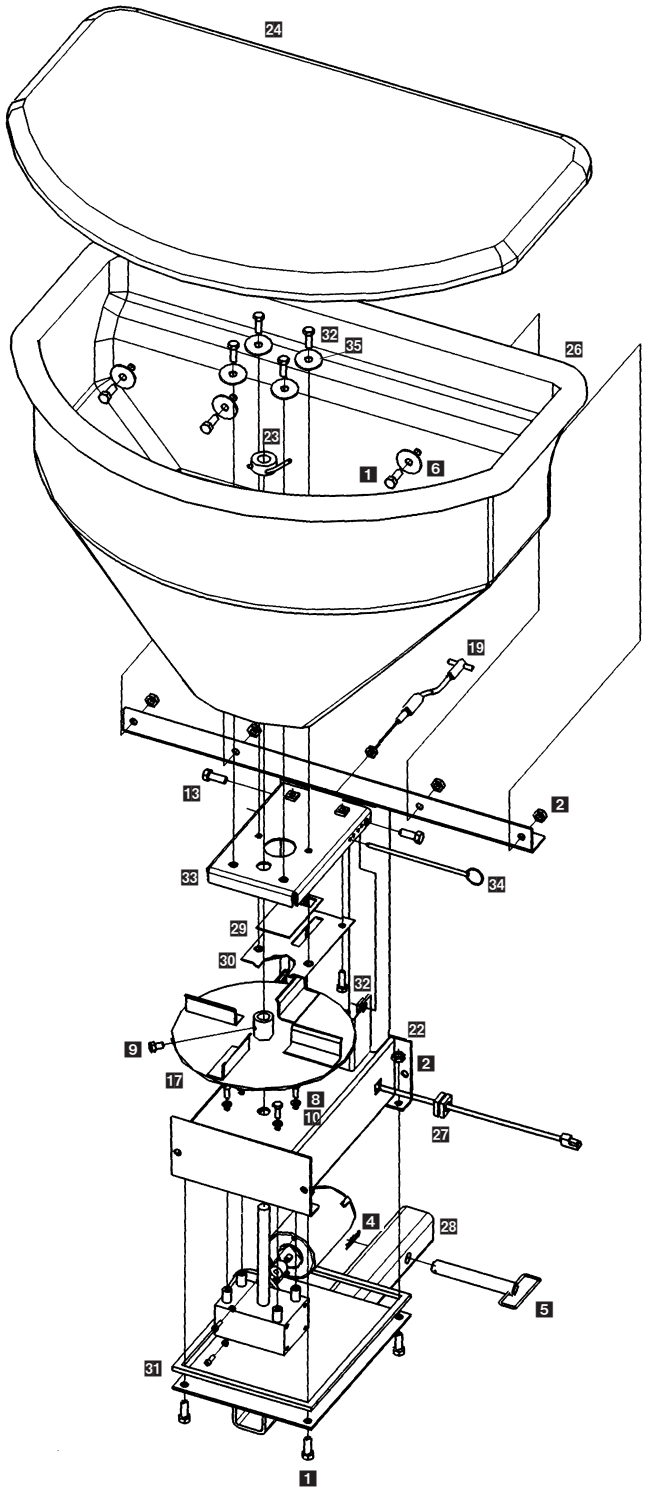
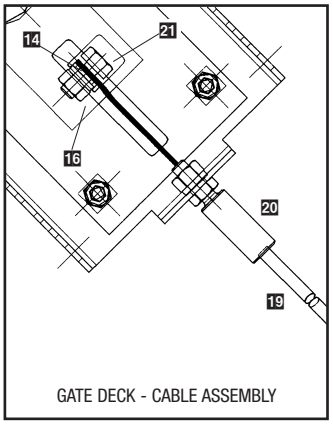
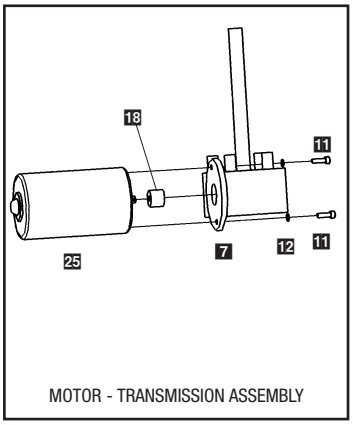
Micro-Pro Spreader

Model #SP-375





GATE DECK - CABLE ASSEMBLY



MOTOR - TRANSMISSION ASSEMBLY

Key	Part No.	Description	Qty.
1	D 4121	3/8'' - 16'' x 1'' Hex Bolt	8
2	D 4124	3/8'' - Locknut	8
4	D 4135	2-5/16' Hair Pin Clip	1
5	D 4136	5/8'' x 5-1/2'' Hitch Pin	1
6	D 4318	3/8'' Fender Washer	4
7	D 6107	Transmission	1
8	D 6131	1/4'' - 20 x 1/2" Stainless Hex Bolt	4
9	D 6133	5/16'' - 18 x 1/2'' Hex Bolt	1
10	D 6134	1/4'' Stainless Lock Washer	4
11	D 6135	#10 - 32 x 5/8'' Hex Machine Screw	2
12	D 6136	#10 - 32 Lockwasher	2
13	D 6452	3/8" - 16 x 1 Serrated Hex Bolt	2
14	D 6155	5/16'' Lockwasher	1
16	D 6168	5/16'' - 18 Hex Nut	1
17	D 6224	10'' Steel Spinner	1
18	D 6232	Motor Drive Coupler	1
19	D 6304	T-Handle Cable - 10'	1
20	D 6305	Bulkhead Cable Fitting	1
21	D 6308	5/16'' - 16 x 3/4'' Bolt w/hole	1
22	D 6400	Main Frame	1
23	D 6405	Agitator Spring	1
24	D 6409	Weather Cover	1
25	D 6410	Motor 12 Volt DC	1
26	D 6464	Hopper	1
27	D 6413	Cord Restraint	1
28	D 6414	Bottom Cover Assembly	1
29	D 6415	Gate Slide	1
30	D 6416	Gate Track	1
31	D 6417	Foam Seal 40''	1
32	D 6418	5/16'' - 18 x 1'' Hex Bolt S.S.	4
33	D 6419	Gate Deck	1
34	D 6457	Gate Slide Stop Pin w/Lanyard	1
35	D 6165	3/16" Flat Washer	4

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Step 1: Install foam tape on bottom of motor enclosure/frame assembly.

Step 2: Bolt bottom cover assembly on to motor enclosure. Make sure 2'' square tube faces the rear.

Step 3: Attach bulkhead cable fitting onto cable outer jacket. Using pliers to hold the cable, thread fitting onto jacket with a wrench. Be careful not to bend or kink cable. Important: To maximize the life of the cable and prevent corrosion, apply a small amount of oil to the inner cable.

Step 3A: If you need to reduce the cable length, remove inner cable by twisting the T-handle counter clockwise and pull wire out of cable jacket, and trim to desired length. Make note of the amount of wire that extends beyond outer jacket. You will need to maintain this length for proper operation.

Step 3B: Optional* You may run the cable through either the left or right side of rear spreader frame. There are two holes located along the back side of ther rear upper horizontal support. This would be used to keep cable routed away from other equipment or to take up any slack in cable. Also this will keep cable from being kinked if mounted on a pickup truck.

Step 4: Attach cable assembly to the side and insert fitting into rear gate deck hole. Make sure you have the first jam hex nut threaded onto the fitting.

Step 4A: Once cable is inserted through rear gate deck, slide star washer and second jam nut over cable fitting. Leave these loose for now.

Step 5: Locate special 5/16'' hex bolt with a small hole drilled in it. Insert bolt through slide tab. The hole in bolt must be as close to being in line with the cable as possible.

Step 6: Rotate hex bolt until hole aligns with the cable. Insert cable through hole. Thread lock washer and hex nut on. Do not tighten yet.

Step 7: Make sure gate is at full close and that the cable is at full close. Once this is done, tighten hex bolt on gate slide, then tighten cable assembly on rear gate deck. This will insure that the gate slide can seal off hopper 100%.

Step 8: Test gate travel by pulling and pushing the T-handle. The cable assembly has a twist-lock feature. Turning clockwise locks the gate into position, turning counter clockwise allows gate to move back and forth.

Step 9: Install nylon lid.

Step 10: Mount spreader into a 2'' receiver type tube, align holes on mount and spreader and install 4'' locking pin.

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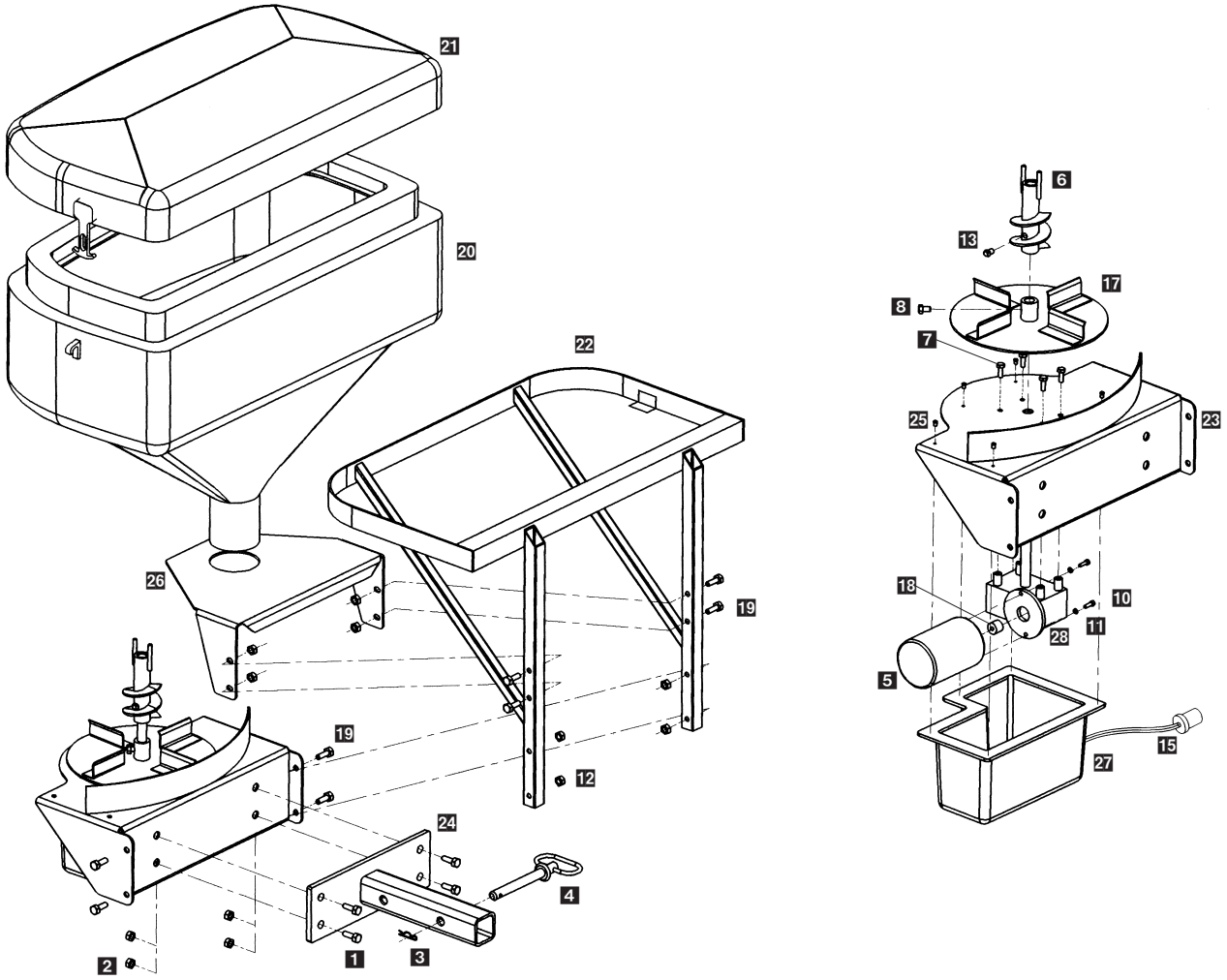
Junior Spreader

Model #SP-325



Key	Part No.	Description	Qty.
1	D 4116	1/2"-13 x 1-1/2" Hex Bolt	4
2	D 4120	1/2" Lock Nut	4
3	D 4135	2-5/16" Hair Pin Clip	1
4	D 4136	5/8" x 5-1/2" Pin w/Clip	1
5	D 6106	12 VDC Motor	1
6	D 6122	Hi-Flow Auger	1
7	D 6131	1/4"-20 x 1/2" Hex S.S. Serrated HWH	4
8	D 6133	5/16"-18 x 1/2" Hex Bolt	1
10	D 6135	10/32 x 5/8" Hex Cap Screw	2
11	D 6136	10/32 Lock Washer	2
12	D 6138	5/16" - 18 Lock Nut	8
13	D 6140	5/16" - 18 x 3/8" S.S. Set Screw	1
15	D 6162	24" Power Cord	1

Key	Part No.	Description	Qty.
17	D 6224	10'' Steel Spinner	1
18	D 6232	Motor Drive Coupler	1
19	D 6462	5/16" - 18 x 1-3/4" HHCS	
20	D 6475	SP-325 Yellow Hopper	1
21	D 6476	SP-325 Lid Assy	1
22	D 6477	SP-325 Hopper Weldment	1
23	D 6480	Trans Mount Weldment	1
24	D 6485	LDM-175 Lt Duty Rec Mount	1
25	D 6487	#8 x 1/2" Hex Head Sheet Screw	5
26	D 6702	Salter Hopper Support Plate	1
27	D 6708	Plastic Bottom Cover	1
28	D 6715	14.5 to 1 Transmission	1

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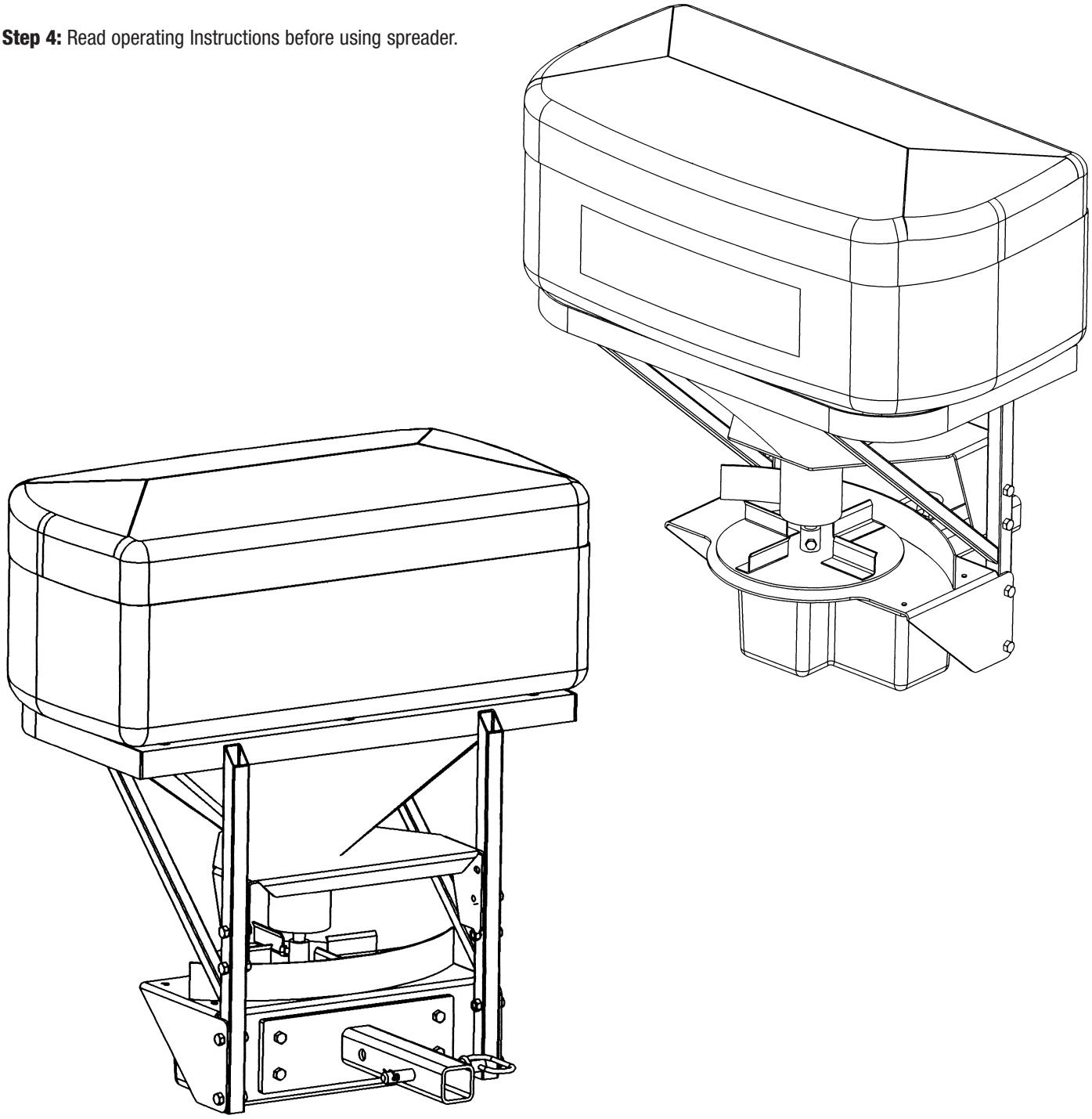
Junior SP-325 Mounting Instructions

Step 1: Install 2" Receiver Mount to Spreader with supplied hardware. (See parts diagram for more detail)

Step 2: Insert Spreader into 2" Vehicle Receiver Hitch. (Use suppled pin with lock to secure Spreader).

Step 3: Connect Spreader power plug to bumper plug.

Step 4: Read operating Instructions before using spreader.



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Step 1: Take harness assembly and route from the rear of the vehicle to the front. Route harness along frame and attach to frame holes and frame supports. It is not recommended to attach to fuel or brake lines for obvious reasons. Do not route close to exhaust system or engine, even though Trynex uses high temperature wiring, it still could melt under extreme heat and short the spreader electrical system, as well as the vehicle electrical system.

Step 2: Mount rear plug on bumper using supplied bolts, locate towards the center of the bumper to reduce the amount of debris the tires will throw to the rear. **Important: Apply a small amount of dielectric grease to the plug.**

Step 3: Secure harness from the rear to the front using heavy duty ty-wraps or frame clips along the frame and lighter duty ty-wraps everywhere else.

Step 4: Layout harness portion that connects to the battery along the fire wall and fender well. Do not connect power leads to battery yet. Drill a 3/4" hole in the fire wall, or use existing access hole, for the control portion of the harness and route connector and harness through hole. Be sure to check the area on the other side of the fire wall to make sure you are not going to drill into the vehicle harness or a control module. Generally you can drill on either side of the steering wheel for a good location.

Step 4A: (1875 ONLY) The power harness from control box to battery will need to be routed from the inside of the cab to the battery – this results from the large high amperage connector. Route leads with lugs to battery — do not connect power at this time.

Step 5: Connect harness to the back of the controller and mount to a suitable location. NOTE: You may want to contact customer before mounting controller, some prefer not to have holes drilled into the dashboard. Ty-wrap loose controller harness and move to the engine compartment.

Step 6: Connect power leads to the battery: Red + Positive, Black – Negative, always connect to the primary battery if using a dual battery system, secure loose loom to any other large or medium vehicle harness with medium duty ty-wraps this will secure wiring harness.

Step 7: (for 1875 only) Install ignition wire to an auxiliary circuit that is hot when the ignition key is turned to ON position. This wire is 60" long and has a female terminal attached to it. This wire will plug into back of controller. This wire must be installed in order for controller to work.

Step 8: Push the ON/OFF button on the controller to check for power, when that has been confirmed turn power OFF. The electrical portion of the installation is complete.

NOTE: If adding an inline fuse, use a 35 amp slow blow fuse (575 and 1075 only), and use a 60 amp slow blow fuse for 1875 only.

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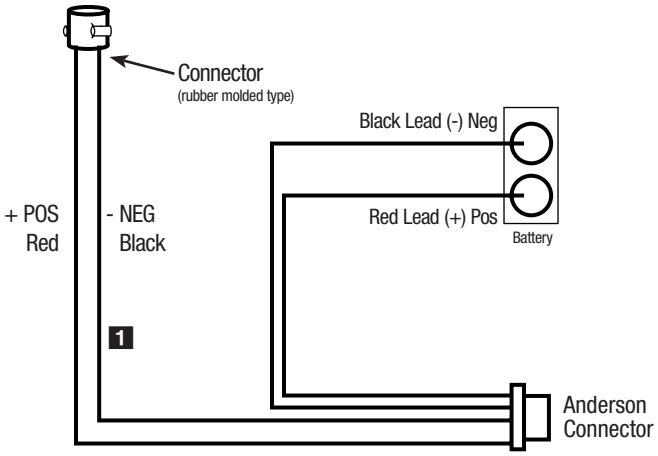
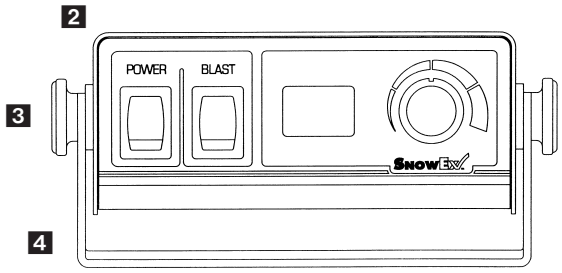
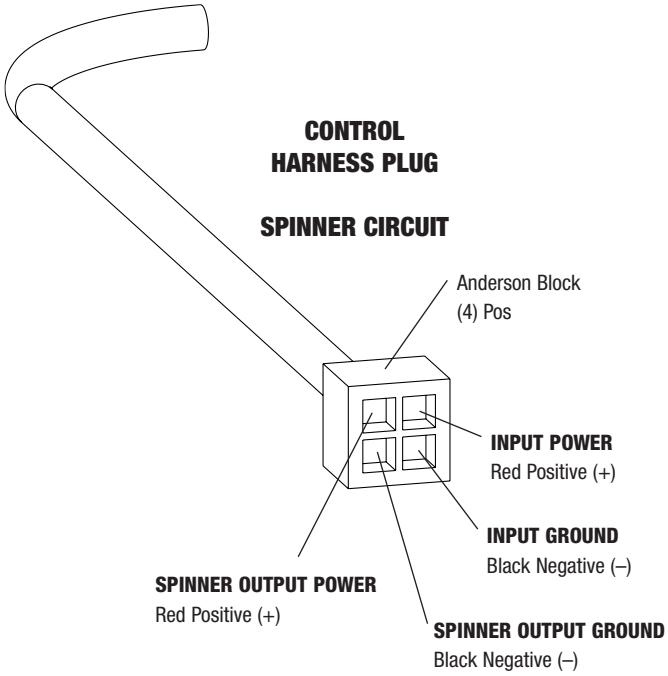
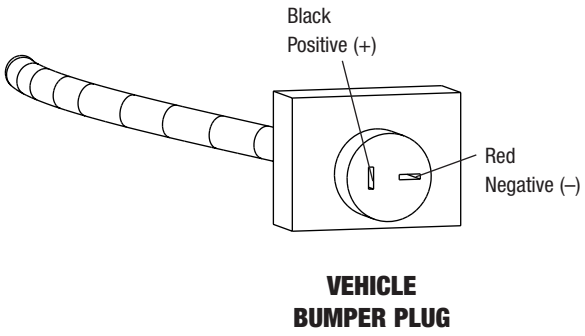
1075 Pivot-Pro / 575 Mini-Pro

Control and Harness Diagram









Special Notes:

1. All external connections must have dielectric grease.
2. Read lead labels before attaching to power source or ground.
3. No other devices may be spliced into wiring harness.
4. Any repairs to wiring harness must be done with heat shrink butt connectors.
5. If inline fuse is installed, use a 35 amp time delay or a circuit breaker (575 and 1075).

Key	Part No.	Description	Qty.
1	D 6114	Wiring Harness - 24'	1
2	D 6230	1075/575 Variable Speed Controller	1
3	D 6124	Bracket Knob	2
4	D 6123	Controller Mounting Bracket	1
	D 6118	Dust Cover (not shown)	1
	D 6344	Dielectric Grease - 1 1/2 oz. (not shown)	1

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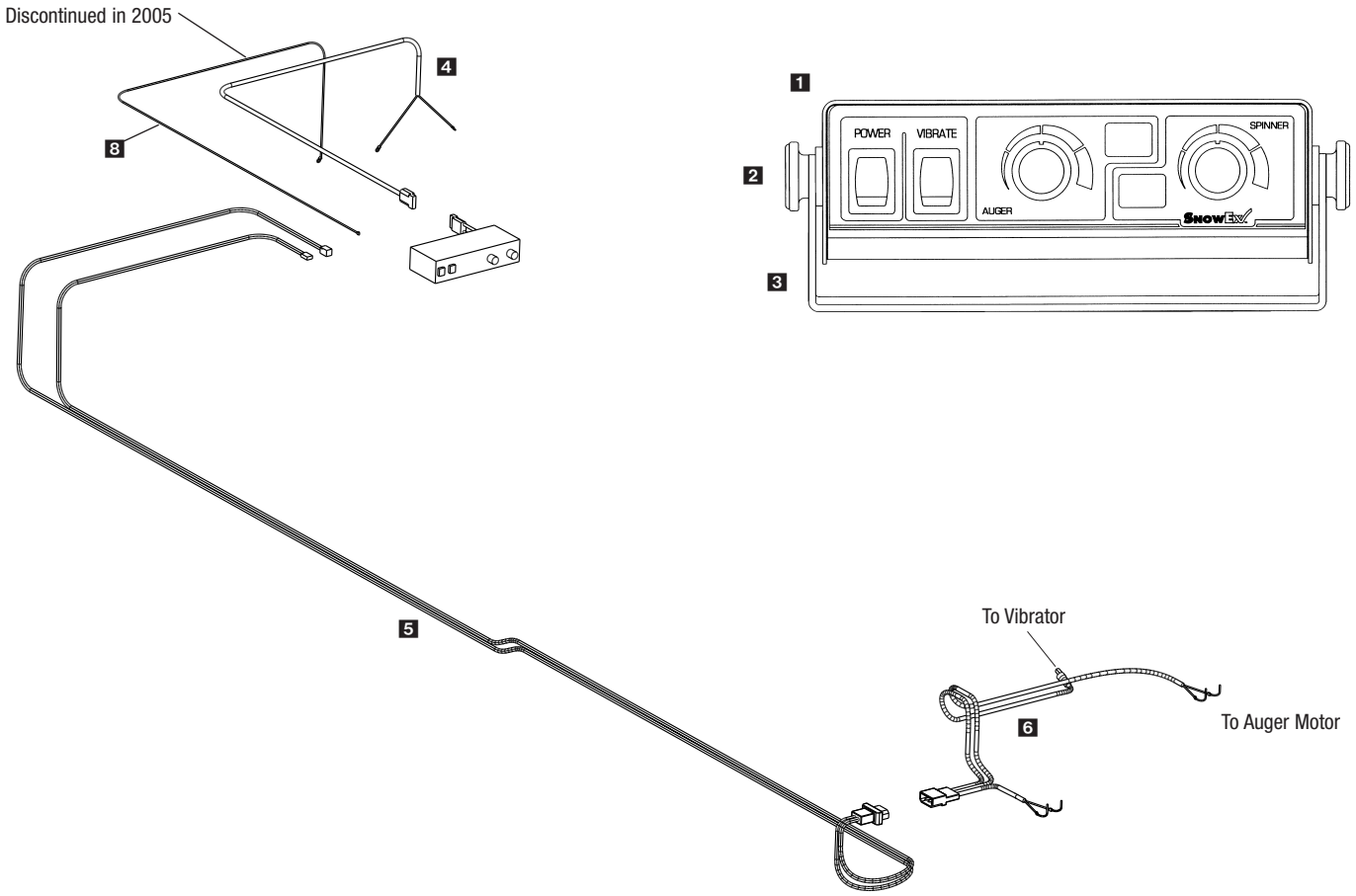
1875 Sand-Pro

Electrical System



Special Notes:

1. All external connections must have dielectric grease.
2. Read lead labels before attaching to power source or ground.
3. No other devices may be spliced into wiring harness.
4. Any repairs to wiring harness must be done with heat shrink butt connectors.
5. If inline fuse is installed, use a 60 amp maxi fuse or circuit breaker.

Key	Part No.	Description	Qty.
1	D 6507	1875 Controller	1
2	D 6124	Bracket Knob	2
3	D 6329	1875 Controller Bracket	1
4	D 6341	Control Power Cable	1
5	D 6322	1875 Wiring Harness - 25'	1
6	D 6321	Power Cord - 48"	1
8	D 7127	60'' Ignition Wire (Discontinued 2005)	1
	D 6118	Dust Cover (not shown)	1
	D 6344	Dielectric Grease - 1 1/2 oz. (not shown)	1

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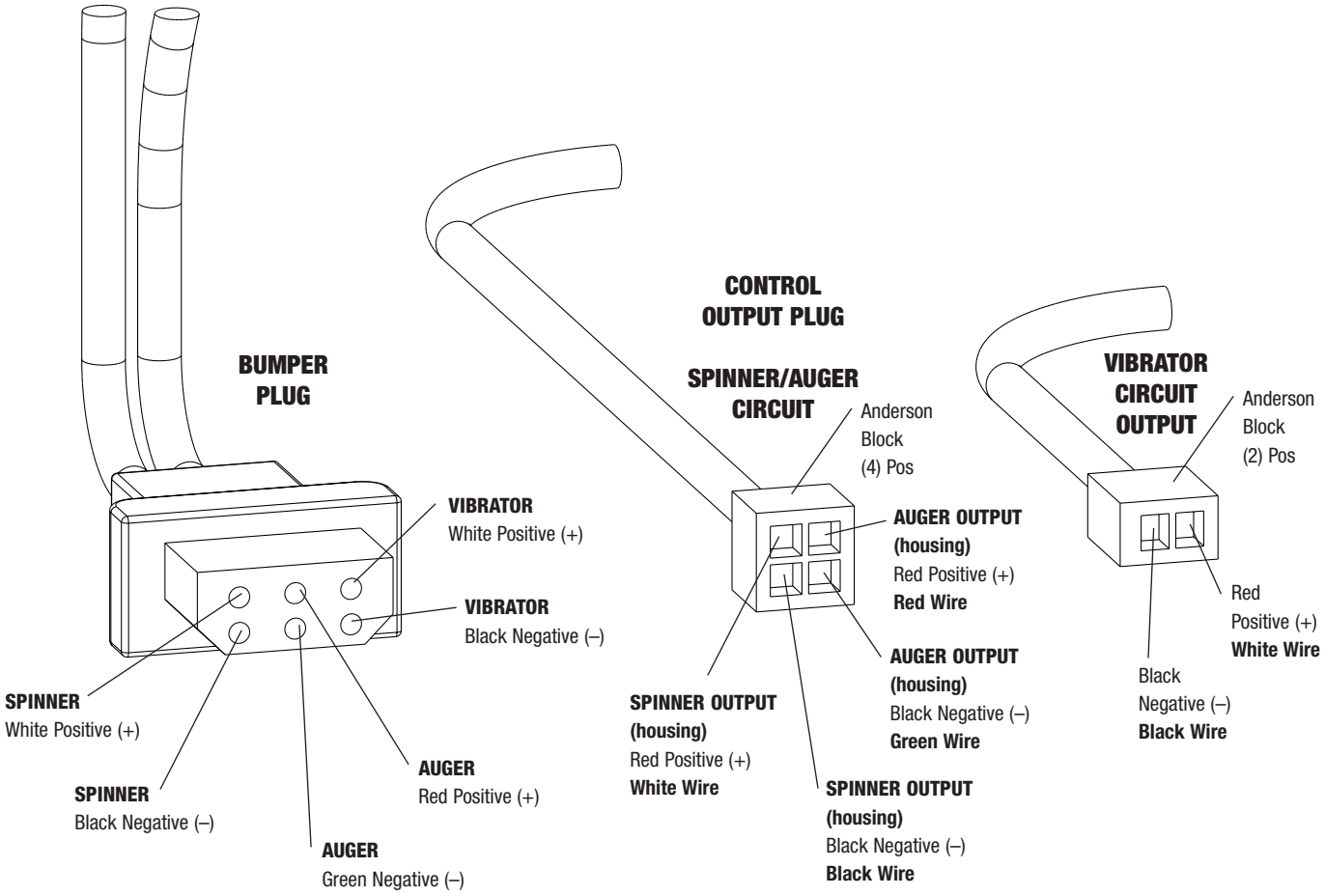
D6322 Vehicle Harness Circuit Diagram



*** NOTE: Reference Bumper Plug for Color Code**

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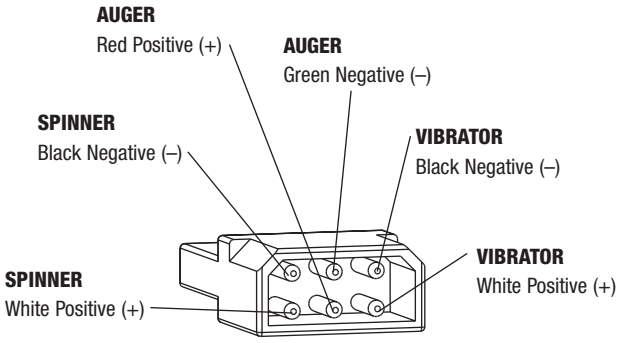
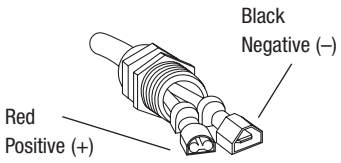
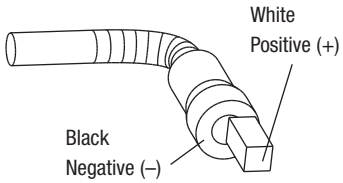
D6321 Spreader Power Harness Circuit Diagram



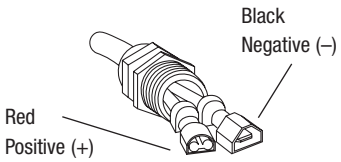
MAIN POWER PLUG
SPREADER



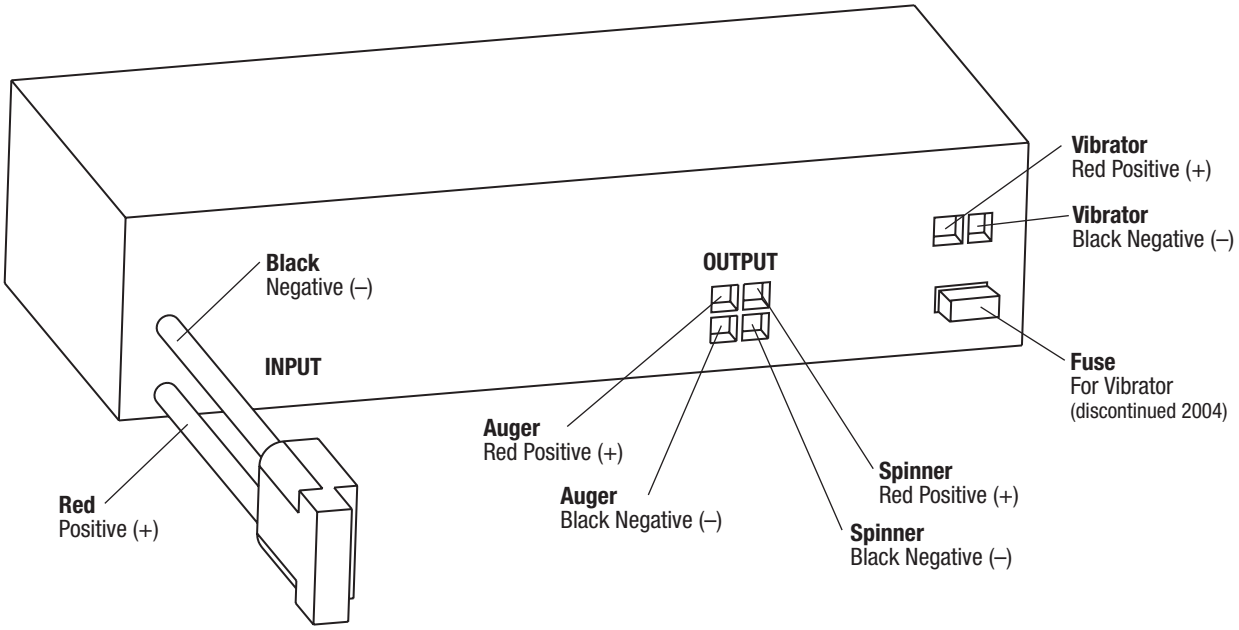
AUGER POWER
CONNECTION



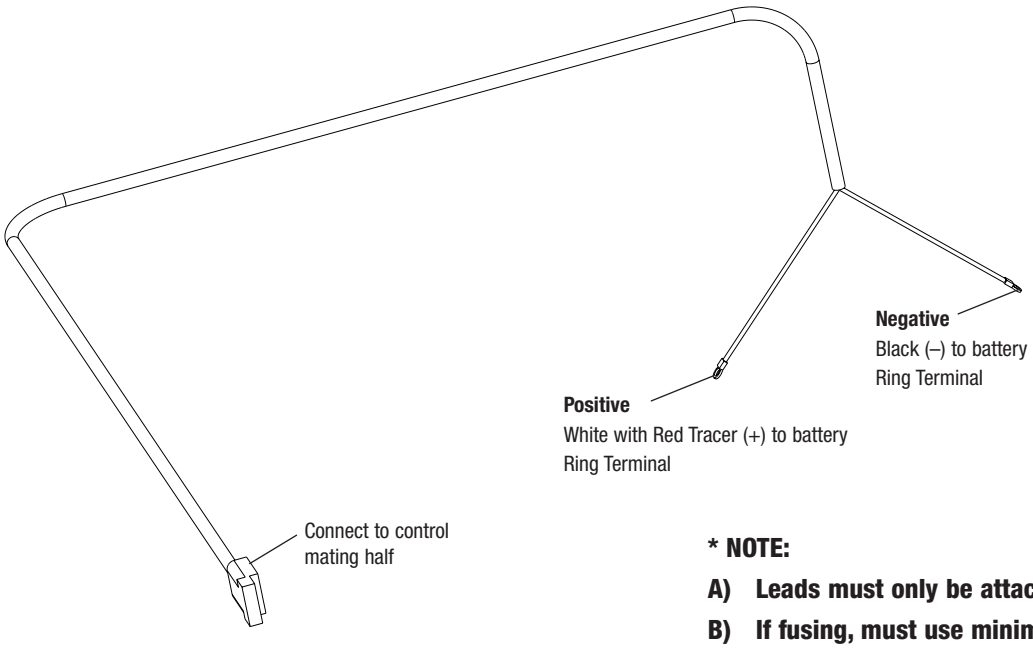
VIBRATOR
POWER PLUG



SPINNER POWER
CONNECTION



D6341 Control Power Cable



*** NOTE:**

A) Leads must only be attached to battery.

B) If fusing, must use minimum 60 Amp Maxi type fuse.

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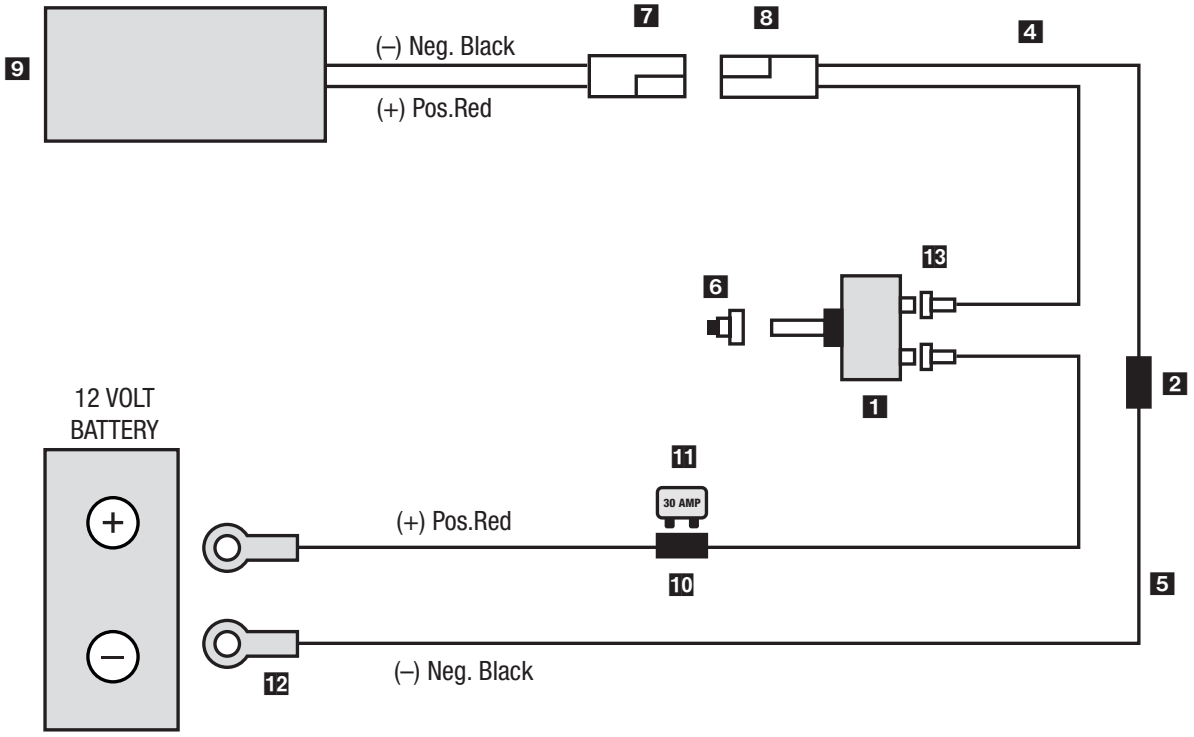
Micro Pro Wiring Diagram

Diagram and Instructions



Step 1: First, install switch at desired location. This will determine what the proper wire length should be.

Step 2: Run spreader/vehicle harness from the rear of vehicle to switch area. Remove approx. 3'' of the black outer jacket exposing two single leads (red and black), strip a 1/4'' off each lead. Crimp 1/4'' female connector on red lead and crimp the butt connector to the black lead. Place the female spade/red wire to the on/off switch and leave the black wire for the next step.

Step 3: Route the power harness from the battery to the switch; this will determine proper length to cut wires. Repeat step #2 regarding cable jacketing and connection points to the switch and butt connector.

Step 4: Install an inline 30 amp. fuse on the positive (red) lead from the battery to the switch. Locate an easily accessible place, out of the elements, for the fuse and remove approx. 3'' of the black outer jacket exposing two single leads (red and black). Cut the red lead in half and strip a 1/4'' off each lead. Insert into the fuse connector and crimp. Insert 30 amp. blade fuse into connector.

Key	Part No.	Description	Qty.
1	D 6184	On/Off Switch	1
2	D 6234	Butt Connector	1
3	D 6344	Dielectric Grease	1
4	D 6403	20' Vehicle Harness	1
5	D 6404	10' Battery Harness	1
6	D 6406	Rubber Switch Boot	1
7	D 6407	Spreader Splice Cord - 10''	1
8	D 6408	Harness Splice Cord - 10''	1
9	D 6410	Motor 12 Volt DC	1
10	D 6424	30 Amp Fuse	1
11	D 6425	Fuse Holder	1
12	D 7105	Ring Terminal	2
13	D 7106	Spade Connector	2

Step 5: At the battery end of the power harness, remove 8'' of the black outer jacket exposing two single leads (red and black). Strip 1/4'' off each lead. Crimp a 3/8'' lug terminal to each lead and attach the red lead to the positive side of the battery and the black lead to the negative side of the battery.

Step 6: Install rubber weatherproof boot on switch before finishing installation.

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Junior SP-325 Wiring Instructions

Step 1: Take harness assembly and route from the rear of the vehicle to the front. Route harness along frame and attach to frame holes and frame supports. It is not recommended to attach to fuel or brake lines for obvious reasons. Do not route close to exhaust system or engine, even though Trynex uses high temperature wiring, it still could melt under extreme heat and short the spreader electrical system, as well as the vehicle electrical system.

Step 2: Mount rear plug on bumper using supplied bolts, locate towards the center of the bumper to reduce the amount of debris the tires will throw to the rear. **Important: Apply a small amount of dielectric grease to the plug.**

Step 3: Secure harness from the rear to the front using heavy duty ty-wraps or frame clips along the frame and lighter duty ty-wraps everywhere else.

Step 4: Layout harness portion that connects to the battery along the fire wall and fender well. Do not connect power leads to battery yet. Drill a 3/4" hole in the fire wall, or use existing access hole, for the control portion of the harness and route connector and harness through hole. Be sure to check the area on the other side of the fire wall to make sure you are not going to drill into the vehicle harness or a control module. Generally you can drill on either side of the steering wheel for a good location.

Step 5: Connect harness battery leads to battery (+/–) and motor leads (+/–), and mount to a suitable location. NOTE: You may want to contact customer before mounting controller, some prefer not to have holes drilled into the dashboard. Ty-wrap loose controller harness and move to the engine compartment.

Step 5A: Verify that the 15 Amp fuse is securely in place.

Step 6: Connect power leads to the battery: Red + Positive, Black – Negative, always connect to the primary battery if using a dual battery system, secure loose loom to any other large or medium vehicle harness with medium duty ty-wraps this will secure wiring harness.

Step 7: Switch the ON/OFF button on the controller to check for power, when that has been confirmed turn power OFF. The electrical portion of the installation is complete.

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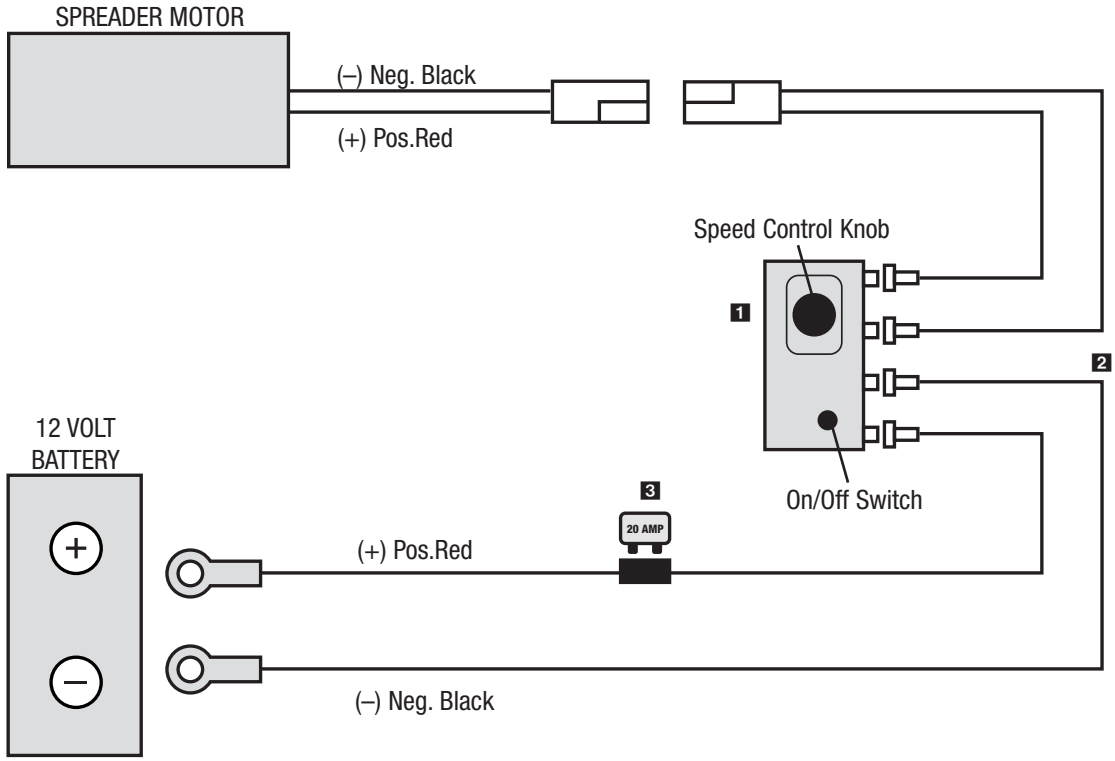
Junior SP-325 Wiring Diagram

Diagram and Instructions



Key	Part No.	Description	Qty.
1	D 6474	Mini Control	1
2	D 6486	325 Harness	1
3	D 6482	20 Amp Fuse	1

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PREPARATION

CAUTION – Sweep area clear of foreign objects or obstacles that could cause personal injury. Keep other persons, children, or animals out of the area to be spread.

SPREADER LOADING

WARNING – Do not overload vehicle. Use chart below to calculate weight of material. Weights of material are an average for dry materials.

Material	Weight Per Cubic Ft.
Rock Salt	35-40 lbs.
Sand/Salt Mix	85-95 lbs.

- Be sure to comply with manufacturer's maximum gross vehicle weight ratings.
- Warning – Never leave materials in hopper for long periods of time as salt is hygroscopic and will attract atmospheric moisture and harden up. When spreading sand mix, a 2 to 1 Sand/Salt mix is recommended to prevent the material from freezing.

SPREADING TIPS

- Never exceed 10 m.p.h. when spreading.
- For a wider pass, increase spinner speed.
- For a heavier pass, drive slower, or increase auger speed.
- Never operate spreader near pedestrians.
- Spread ice melters with the storm to prevent unmanageable levels of ice.
- Calculate spread pattern when near vegetation.

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SPREADER OPERATION

PIVOT-PRO 1075 / MINI-PRO 575

- The variable speed controller has finger-tip dial action, digital system status with warning protection and blast feature.
- To start, press power switch on controller and spreader will accelerate to speed set on dial.
- To stop, press power switch on controller to off position.
- Adjust speed of spinner by using dial on right side of controller.
- If more salt is needed in certain areas, press the blast switch to give maximum power.

SAND-PRO 1875

- The Dual Variable Speed Control has dual finger-tip dials for maximum performance, digital system status with warning protection and built-in Vibrator Switch.
- To start, press power switch on controller and spreader will accelerate to speed set on spinner and auger dials.
- To stop, press power switch on controller to off position.
- Speed of auger and spinner may be adjusted separately to get desired flow and spread distance from spreader.
- The Vibrator Switch is needed for dense material or to increase the flow to the auger. This eliminates bridging of material in hopper.
- A Material Baffle (Part #D6330) has been installed in your spreader to stop fine material from free-flowing. If using dense or damp material, or if more flow is desired, remove Material Baffle. However, it is recommended that the Material Baffle remain in place if using bulk salt.
- It is important that the Inverted Vee (Part #D6328) not be removed except when servicing.

AUTO-REVERSE "AR" FUNCTION (SAND-PRO 1875 ONLY)

- If your controller displays "OL" this could indicate a jammed auger.
- To engage the Auto-Reverse "AR" function:

  Step 1: Shut the Main Power Switch OFF for 3 seconds.

  Step 2: Turn the Main Power Switch ON. When the machine starts back up the "AR" sequence will automatically start and the auger will reverse for several rotations to clear the jam.

- After a pause of several moments, the auger will automatically return to correct rotation.
- If the jam is still not cleared, the controller will again display "OL".
- You may repeat Steps 1 & 2 for a second and third time.
- If after the third try the controller displays "OL" — you must extract the material that is causing the problem.
- **Follow all warning directions when clearing jams.**

WARNING PROTECTION

- If audible beeping occurs, read display to identify problem. If display reads "OL" (overload) or "OH" (overheat), shut controller down and carefully clear jammed auger. If display reads "E1" this means there is a dead short in system. Do not use until problem is corrected. If display reads "E0", this means that the motor is not getting any power. Check all connections. If display reads "LB", the vehicle battery is extremely low and could damage system or a poor connection exists.
- If there are any problems while operating the spreader, refer to Troubleshooting Guide.

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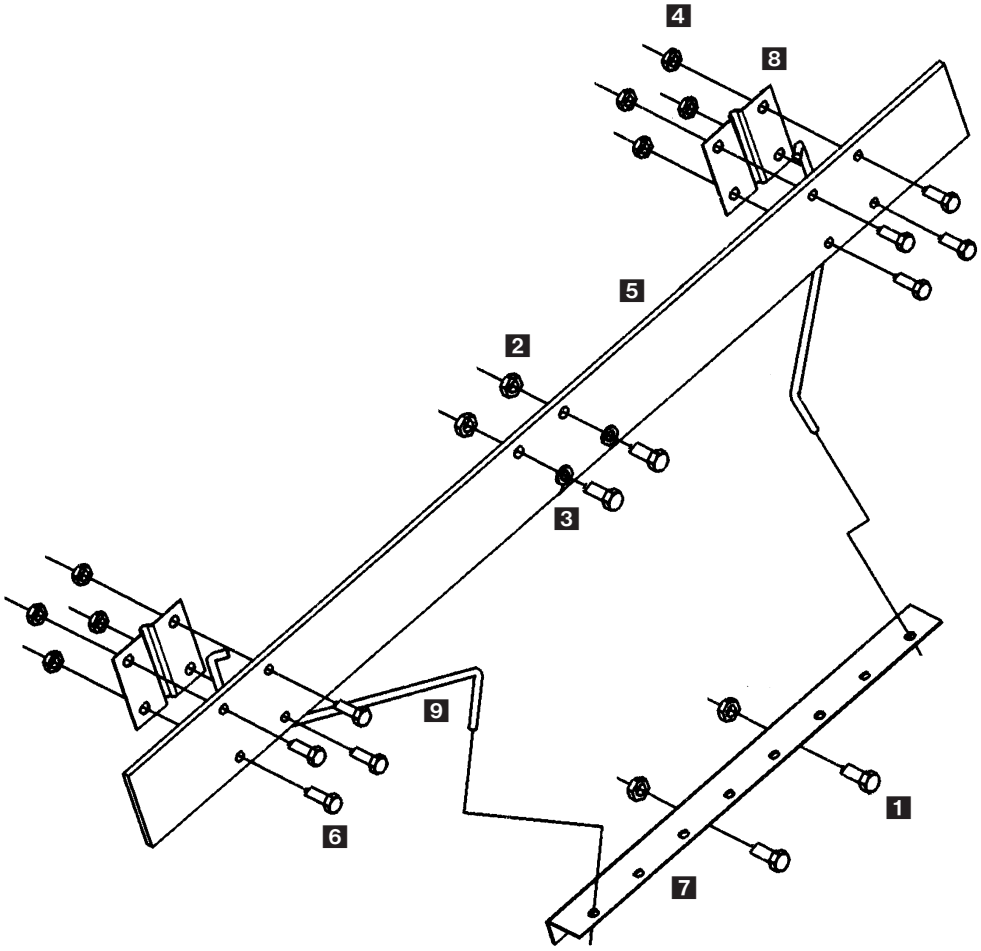
Adjustable Deflector

Model #ADF-020
for SP-375, SP-575 and SP1075



Key	Part No.	Description	Qty.
1	D 4121	3/8'' - 13 x 1'' Hex Bolt	2
2	D 4124	3/8'' - Locknuts	2
3	D 4125	3/8'' - Flatwashers	2
4	D 6138	5/16'' - 18 Locknut	10
5	D 6154	36'' Deflector	1
6	D 6166	5/16'' - 18 x 1'' Hex Bolt	10
7	D 6179	Deflector Adjustment Bracket	1
8	D 6180	Adjustment Bar Mounting Bracket	2
9	D 6181	Adjustment Bar	2

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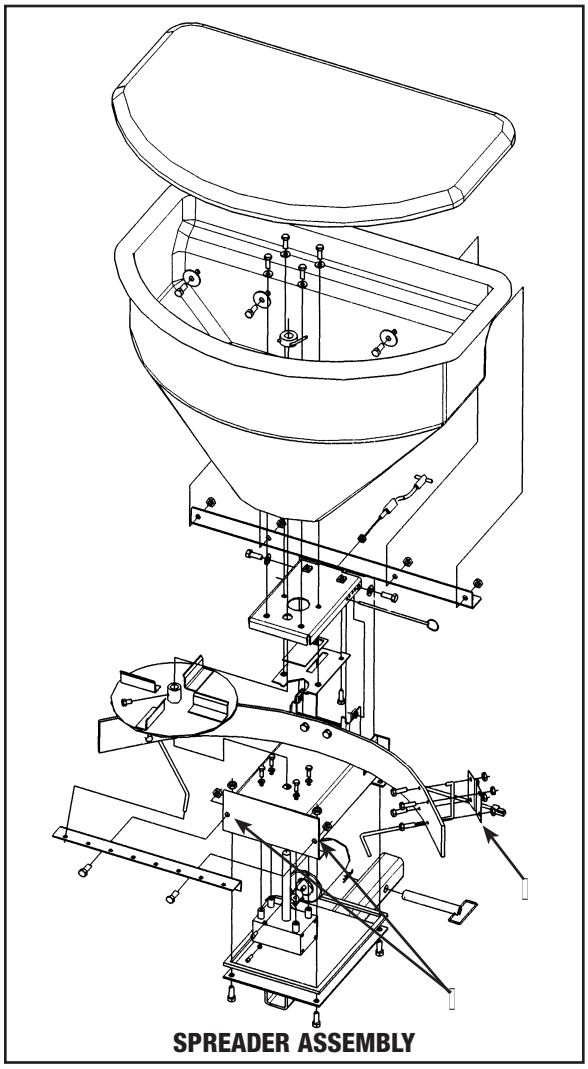
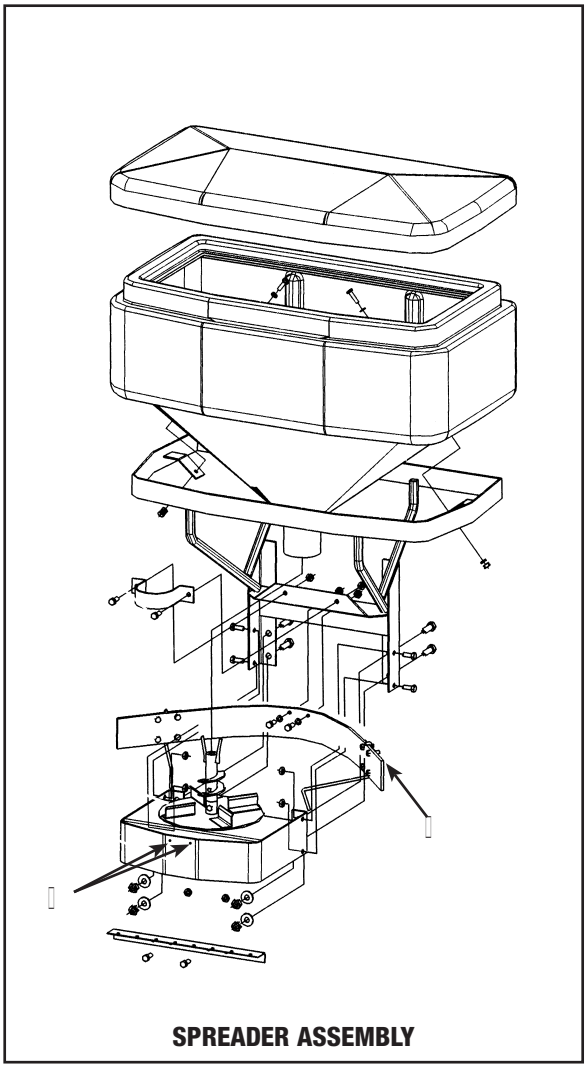
Adjustable Deflector Installation Instructions

Model #ADF-020
for SP-375, SP-575 and SP1075



SPREADER ASSEMBLY



SPREADER ASSEMBLY

INSTALLATION

Step 1: Install deflector adjustment bar as seen in Figure A. If needed, drill two 3/8” holes in front apron of drive enclosure. Bolt bracket to drive enclosure.

Step 2: Remove original deflector.

Step 3: Mount adjustment bar and mounting bracket on back side of 36” deflector. See Figure B.

Step 4: Install 36” deflector assembly.

OPERATION

Step A: To adjust deflector position, simply insert adjustment bars into holes on deflector adjustment bracket until desired spread pattern is achieved.

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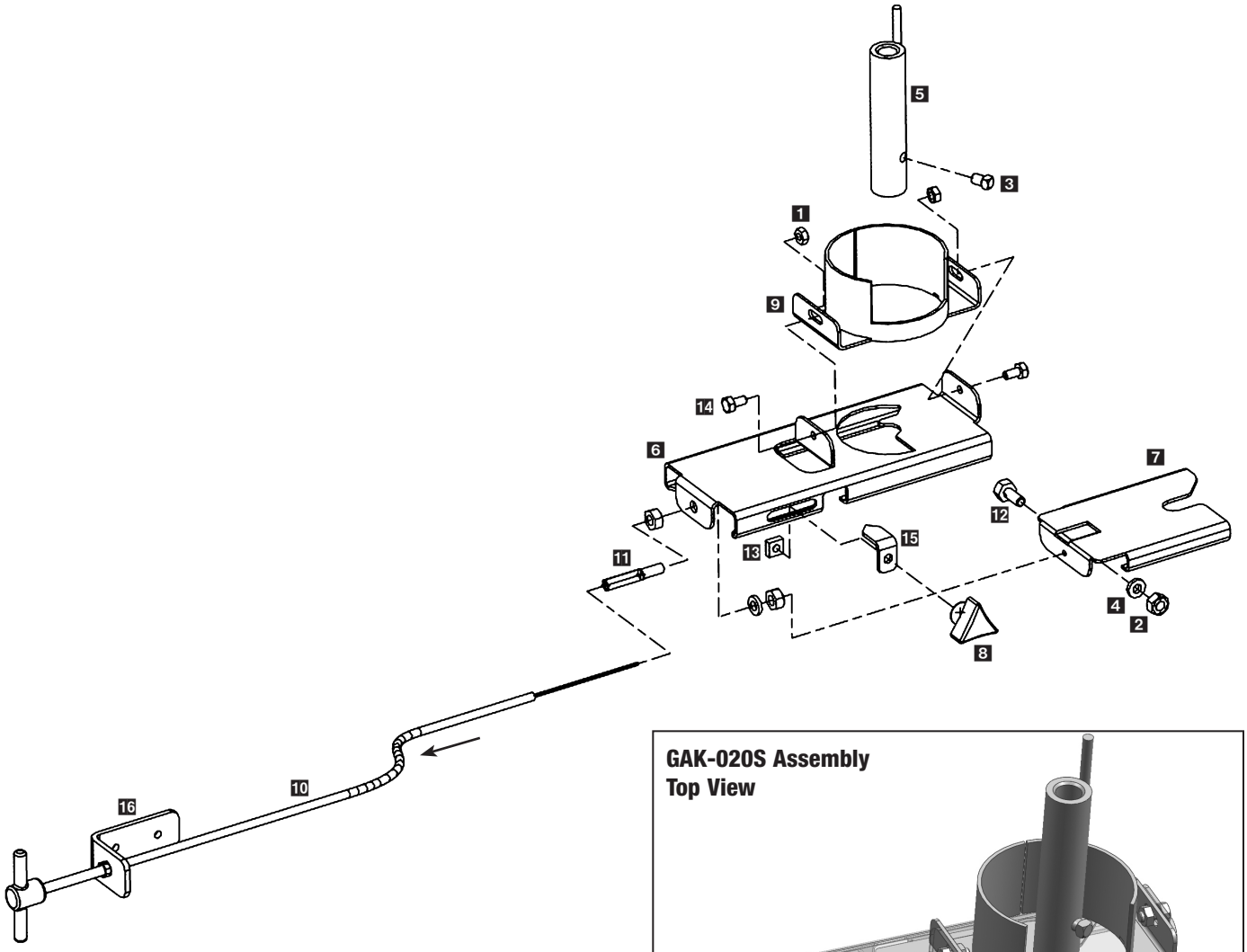
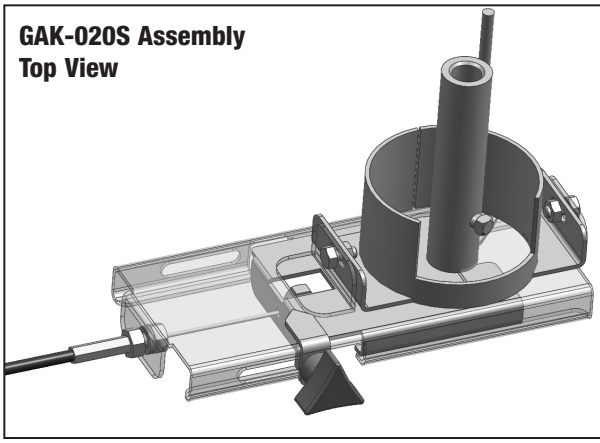
Stainless Gate Assembly Kit

Model #GAK-020S
for SP-575 and SP1075

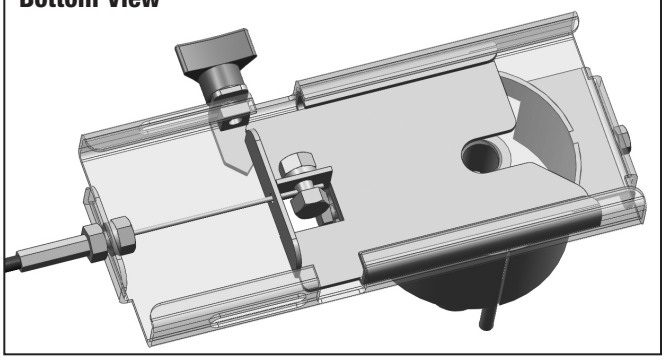


Key	Part No.	Description	Qty.
1	D 4289	1/4'' Lock Nut	2
2	D 6138	5/16'' Lock Nut	1
3	D 6140	5/16'' Set Screw	1
4	D 6155	5/16'' Lockwasher	1
5	D 6185	Agitation Auger	1
6	D 6365	SS Gate Body	1
7	D 6366	SS Gate Slide	1
8	D 6302	Gate Knob	1
9	D 6367	SS Throat Mount	1
10	D 6304	10' Cable	1
11	D 6305	Cable Fitting	1
12	D 6308	5/16'' - 18 Special Bolt	1
13	D 6309	Knob Square Nut	1
14	D 6311	1/4 - 20 x 1/2'' Hex Bolt	2
15	D 6368	SS Gate Stop Indicator	1
16	D 6351	Cable Mounting Bracket	1

GAK-020S Assembly
Top View



GAK-020S Assembly
Bottom View



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Gate Assembly

Installation & Operating Instructions

INSTALLATION INSTRUCTIONS

Step 1: Remove hopper by taking the two 5/16'' stainless steel bolts located inside the hopper.

Step 2: Remove throat clamp using a 9/16'' wrench of socket.

Step 3: Remove auger using allen key. NOTE: Do not re-install when using gate assembly kit.

Step 4: (Optional) Next determine how long your cable should be. Once you have determined the length, pull control wire back 3'' from your cut off point. This will allow you to travel in your gate control.

Step 5: Thread the brass bulk head connector onto the cable jacket. Then install this assembly onto the gate using the supplied drawing.

Step 6: You can now place the gate assembly on to the shaft and position it so that the cable actuator is on the left side if you are looking at it from the back. Leave the gate body and throat mount loose.

Step 7: Now install the new agitator positioning it so that the bolt is on the upper most part of the shaft flat. Use a small amount of blue locktite on the bolt before tightening.

Step 8: Place the hopper back into the frame, at the same time you will need to slip the gate throat mount over the hopper throat.

Step 9: Place the 5/16'' stainless bolts back into the hopper and tighten.

Step 10: Push the gate control up as far as it will go. This will make sure the gate and the spinner will not make contact. Also make sure the gate throat mount is between the hopper throat and the hopper throat clamp. This will help keep it in position when you begin to tighten the throat clamp bolts.

Step 11: Take the throat clamp and reinstall making sure that you will be making full contact with the gate throat mount.

Step 12: You now can tighten the gate throat mount to the gate body. Make sure that the shaft is centered front to back. If not, move the gate body until desired location is determined and tighten bolts on the gate throat mount.

Step 13: Install gate positioning knob into gate slotted opening.

Step 14: When gate has been properly positioned to desired location, drill a 1/4'' hole and install a sheet metal screw or a pop rivet to ensure gate will not move from the optimum location.

OPERATING INSTRUCTIONS

Position the gate locking knob to the desired setting. This will give you a positive reference point for consistent operation. You will need to look into the hopper with the gate open to get an idea of where to locate the stop.

When using a variable speed controller, you may need to open the gate slightly more than you would if using a standard on/off control.

Once you have determined the gate position, you can then load the hopper with material and perform a test run. A parking lot or paved area is the best way to analyze your pattern. This will assist you in tuning your spreader and material to the specific task.

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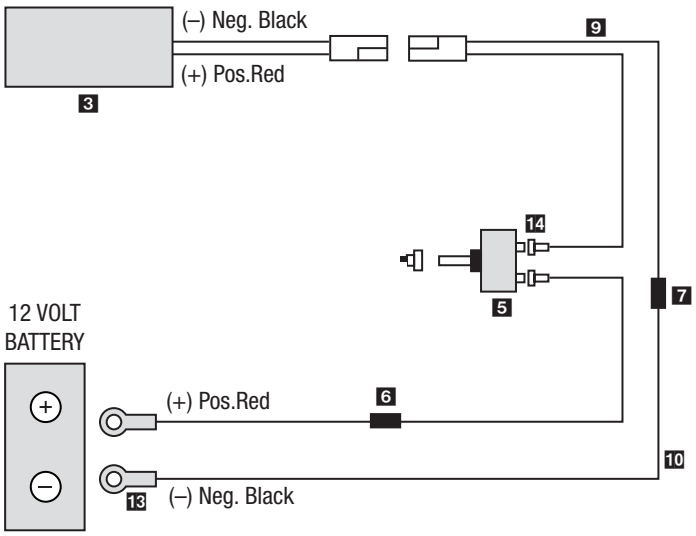
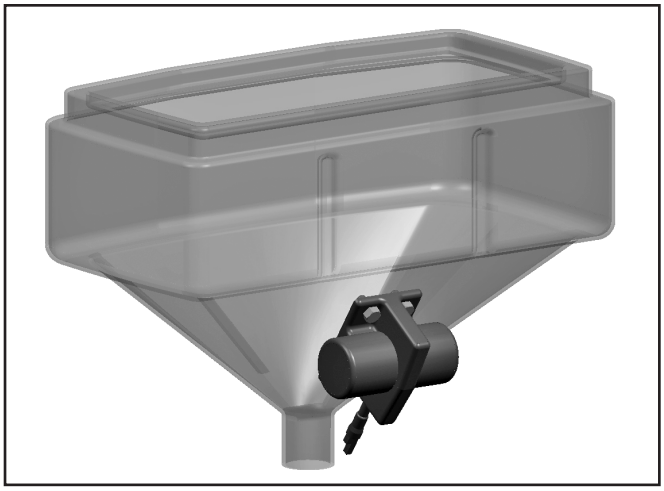
Vibrator Kit Model #OFK-020

Wiring Diagram and Installation



Key	Part No.	Description	Qty.
1	D 4124	3/8'' Lock Nut	4
2	D 6160	3/8'' - 16x2 Hex Bolt	4
3	D 6161	DC-80 Vibrator	1
4	D 6163	Vibrator Washer	4
5	D 6184	On/Off Switch	1
6	D 6233	10 Amp Fuse	1
7	D 6234	Butt Connector	1
8	D 6344	Dielectric Grease	1
9	D 6403	20' Universal Harness	1
10	D 6404	10' Battery Harness	1
11	D 6406	Rubber Switch Boot	1
12	D 6425	Fuse Holder	1
13	D 7105	Ring Terminal	2
14	D 7106	Spade Connector	2

Wiring Installation and Instructions



Step 1: First, install switch at desired location. This will determine what the proper wire length should be.

Step 2: Run spreader/vehicle harness from the rear of vehicle to switch area. Remove approx. 3'' of the black outer jacket exposing two single leads (red and black), strip a 1/4'' off each lead. Crimp 1/4'' female connector on red lead and crimp the butt connector to the black lead. Place the female spade/red wire to the on/off switch and leave the black wire for the next step.

Step 3: Route the power harness from the battery to the switch; this will determine proper length to cut wires. Repeat step #2 regarding cable jacketing and connection points to the switch and butt connector.

Step 4: Install an inline 10 amp. fuse on the positive (red) lead from the battery to the switch. Locate an easily accessible place, out of the elements, for the fuse and remove approx. 3'' of the black outer jacket exposing two single leads (red and black). Cut the red lead in half and strip a 1/4'' off each lead. Insert into the fuse connector and crimp. Insert 10 amp. blade fuse into connector.

Step 5: At the battery end of the power harness, remove 8'' of the black outer jacket exposing two single leads (red and black). Strip 1/4'' off each lead. Crimp a 3/8'' lug terminal to each lead and attach the red lead to the positive side of the battery and the black lead to the negative side of the battery.

Step 6: Locate vibrator approx. 6" to 8" from the top of throat entry and drill four 3/8" holes in rear hopper face. Bolt the vibrator in place using special washers with domed side against hopper.

IMPORTANT: It is imperative that **SPECIAL DOMED WASHERS** are used. Use of any other washer could cause hopper to tear.

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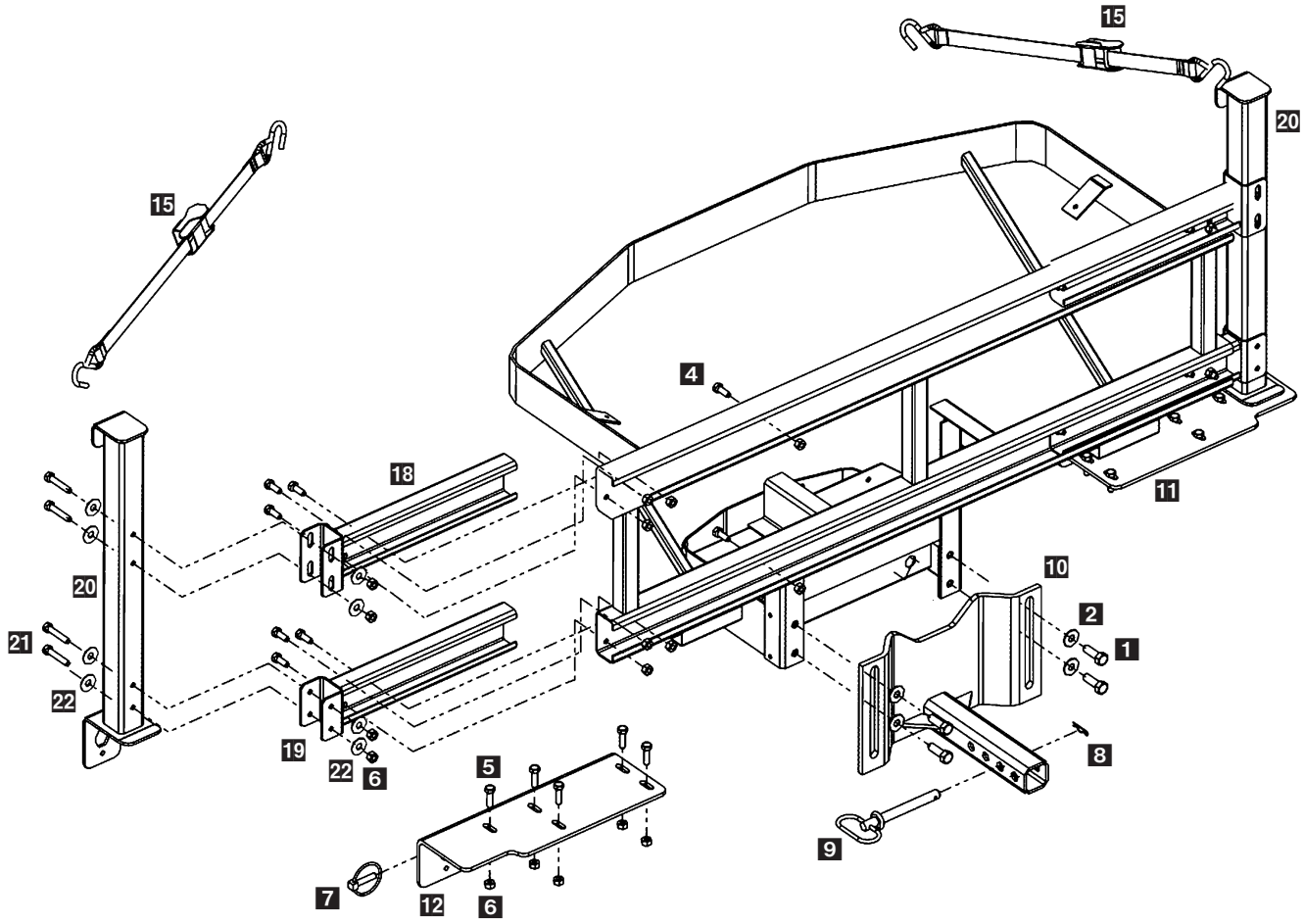
Receiver Hitch Mount (SP-1075 ONLY)

Model #RHT-185



Key	Part No.	Description	Qty.
1	D 4116	1/2” - 13 x 1-1/2” Hex Bolt	4
2	D 4119	1/2” Flat Washer	4
3	D 4120	1/2” Lock Nut	4
4	D 4121	3/8”-16x1 Hex Bolt	16
5	D 4122	3/8”-16x1-1/2” Hex Bolt	10
6	D 4124	3/8”-Lock Nut	34
7	D 4133	5/16” Lynch Pin	2
8	D 4135	2 - 5/16'' Hair Pin Clip	1
9	D 4136	5/8'' x 5-1/2'' Hitch Pin	1
10	D 6270	2” Receiver Weldment	1
11	D 6271	Left Bumper Bracket	1
12	D 6272	Right Bumper Bracket	1
15	D 6503	Ratchet Strap	2
18	D 6386	Upper Rail Weldment	2
19	D 6387	Lower Rail Weldment	2
20	D 6388	Vertical Rail Support	2
21	D 6392	3/8"-16 x 3" Tap Bolt GRZ	8
22	D 4125	3/8" Flat Washer	16

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Receiver Hitch Mount Mounting Instructions

Model #RHT-175

Step 1: Insert either right or left frame support weldment into spreader frame, line up three hole pattern and bolt together. Repeat process for other side.

Step 2: You will notice a fourth hole in each rail towards the center of the spreader; we recommend drilling this hole through the frame and securing with supplied hardware. This will add additional strength to the spreader frame.

Step 3: Locate the left and right bumper plates, there is a 3/8" hole below the main plate pin, use supplied hardware to bolt both the bumper plate and frame support weldment together, this will help line up the parts while you position the spreader on the bumper.

Step 4: Next insert 2" receiver plate into hitch and install pin to locate; remove existing 4 rear 1/2" bolts from spreader drive assembly.

Step 5: With assistance, lift spreader onto bumper.

Step 6: Re-install 1/2" bolts through receiver plate into frame, re-install lock nuts but leave slightly loose.

Step 7: Line spreader up as close as possible to tailgate, at this point you can use a paint pen or other means to locate bumper plate holes to be drilled.

Step 8: Remove spreader and drill holes.

Step 9: Remove plates from frame assembly and bolt to bumper with supplied hardware.

Step 10: With assistance, insert spreader into 2" receiver hitch and install hitch pin. Since you left the plate loose, this will help with alignment in case bumper pads crushed down during bumper plate installation phase.

Step 11: Tighten receiver mount bolts.

Step 12: Install bumper plate safety pins on both left and right side.

Step 13: INSTALL EITHER ONE OR BOTH RATCHET STRAPS FROM THE FRAME SUPPORT WELDMENT TO AN IN BED TIE DOWN OR WITH A SINGLE STRAP, FROM SIDE TO SIDE AROUND BOTH FRAME SUPPORT WELDMENTS.

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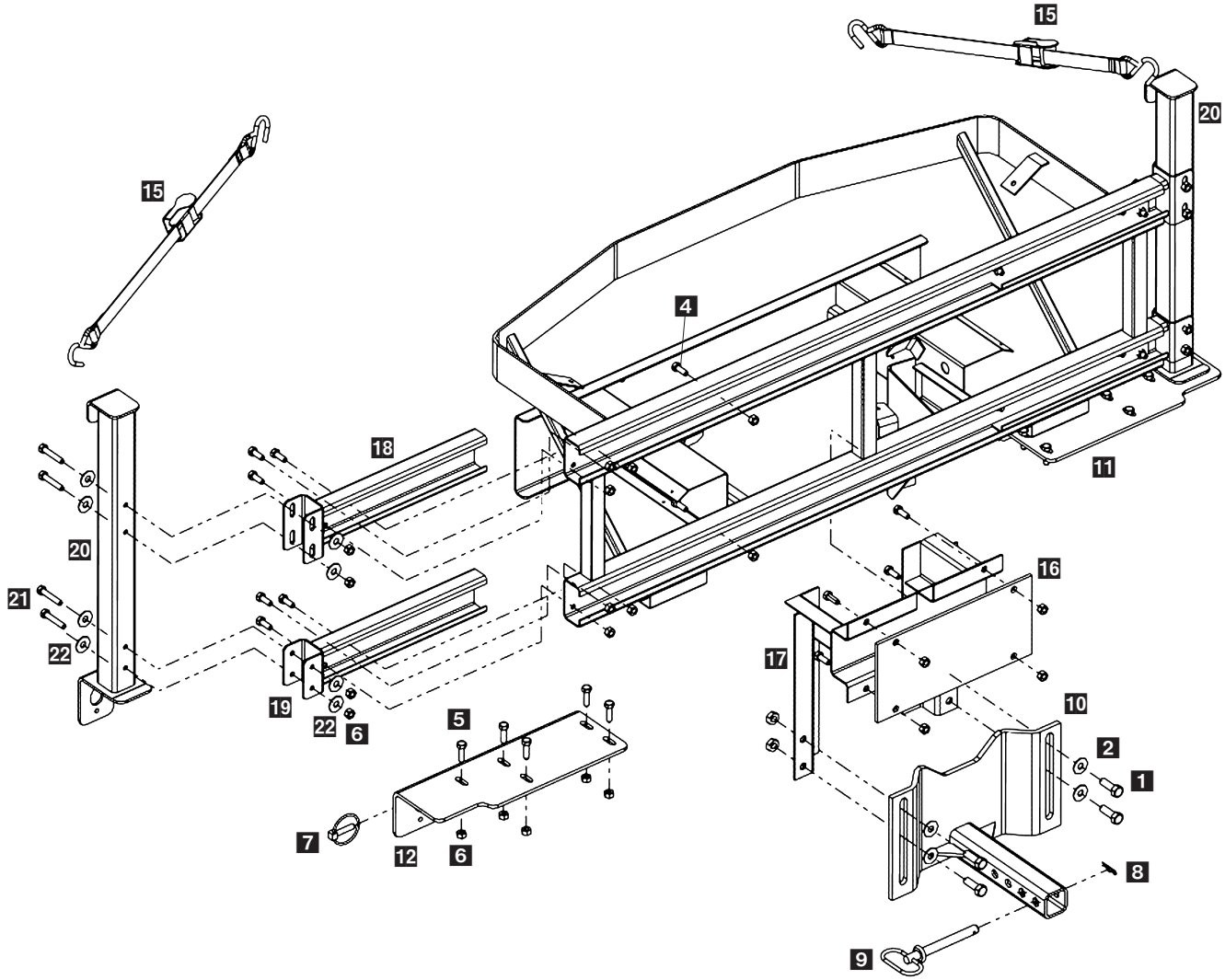
Receiver Hitch Mount (SP-1875 ONLY)

Model #RHT-185



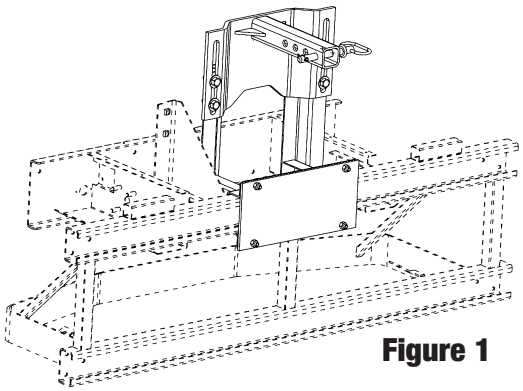


Figure 1

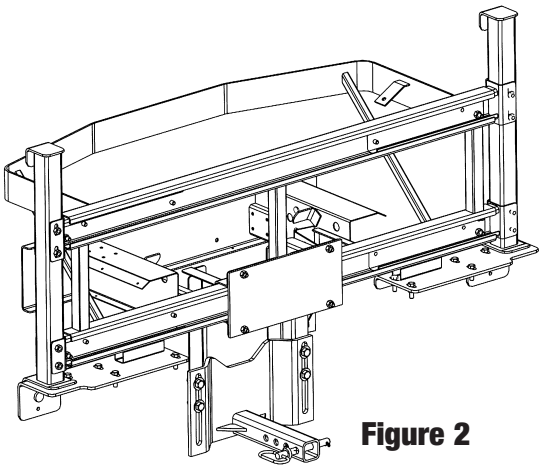


Figure 2

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Receiver Hitch Mount Mounting Instructions

Model #RHT-1875

Step 1: Insert either right or left frame support weldment into spreader frame, line up three hole pattern and bolt together. Repeat process for other side.

Step 2: You will notice a fourth hole in each rail towards the center of the spreader; we recommend drilling this hole through the frame and securing with supplied hardware. This will add additional strength to the spreader frame.

Step 3: Locate the left and right bumper plates, there is a 3/8" hole below the main plate pin, use supplied hardware to bolt both the bumper plate and frame support weldment together, this will help line up the parts while you position the spreader on the bumper.

3A: Place item 10 on the back lower inside rail face, place item 16 on the outside back lower rail (see exploded view).

3B: Install hardware for items 10 and 16 as shown in the exploded view.

3C: Refer to (Figures 1 & 2) for proper installation.

Step 4: Next insert 2" receiver plate into hitch and install pin to locate; remove existing 4 rear 1/2" bolts from spreader drive assembly.

Step 5: With assistance, lift spreader onto bumper.

Step 6: Re-install 1/2" bolts through receiver plate into frame, re-install lock nuts but leave slightly loose.

Step 7: Line spreader up as close as possible to tailgate, at this point you can use a paint pen or other means to locate bumper plate holes to be drilled.

Step 8: Remove spreader and drill holes.

Step 9: Remove plates from frame assembly and bolt to bumper with supplied hardware.

Step 10: With assistance, insert spreader into 2" receiver hitch and install hitch pin. Since you left the plate loose, this will help with alignment in case bumper pads crushed down during bumper plate installation phase.

Step 11: Tighten receiver mount bolts.

Step 12: Install bumper plate safety pins on both left and right side.

Step 13: INSTALL EITHER ONE OR BOTH RATCHET STRAPS FROM THE FRAME SUPPORT WELDMENT TO AN IN BED TIE DOWN OR WITH A SINGLE STRAP, FROM SIDE TO SIDE AROUND BOTH FRAME SUPPORT WELDMENTS.

Key	Part No.	Description	Qty.
1	D 4116	1/2" - 13 x 1-1/2" Hex Bolt	4
2	D 4119	1/2" Flat Washer	4
3	D 4120	1/2" Lock Nut	4
4	D 4121	3/8"-16x1 Hex Bolt	16
5	D 4122	3/8"-16x1-1/2" Hex Bolt	10
6	D 4124	3/8"-Lock Nut	34
7	D 4133	5/16" Lynch Pin	2
8	D 4135	2 - 5/16'' Hair Pin Clip	1
9	D 4136	5/8'' x 5-1/2'' Hitch Pin	1
10	D 6391	2" Receiver Weldment	1

Key	Part No.	Description	Qty.
11	D 6271	Left Bumper Bracket	1
12	D 6272	Right Bumper Bracket	1
15	D 6503	Ratchet Strap	2
16	D 6390	Backing Plate	1
17	D 6389	Frame Adapter	1
18	D 6386	Upper Rail Weldment	2
19	D 6387	Lower Rail Weldment	2
20	D 6388	Vertical Rail Support	2
21	D 6392	3/8"-16 x 3" Tap Bolt GRZ	8
22	D 4125	3/8" Flat Washer	16

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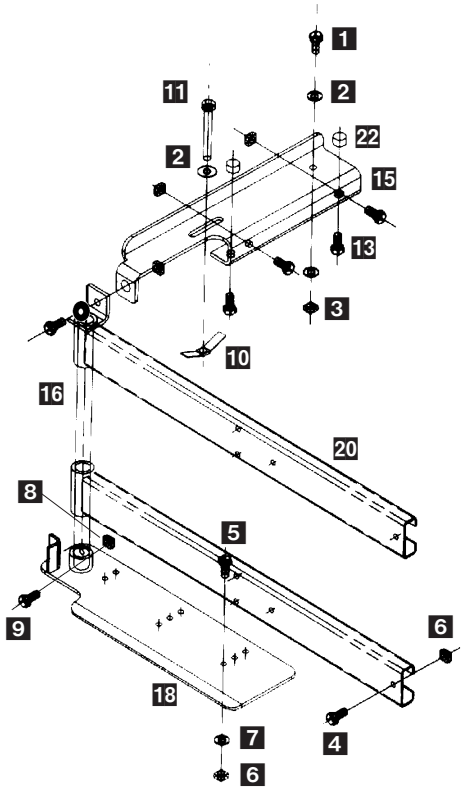
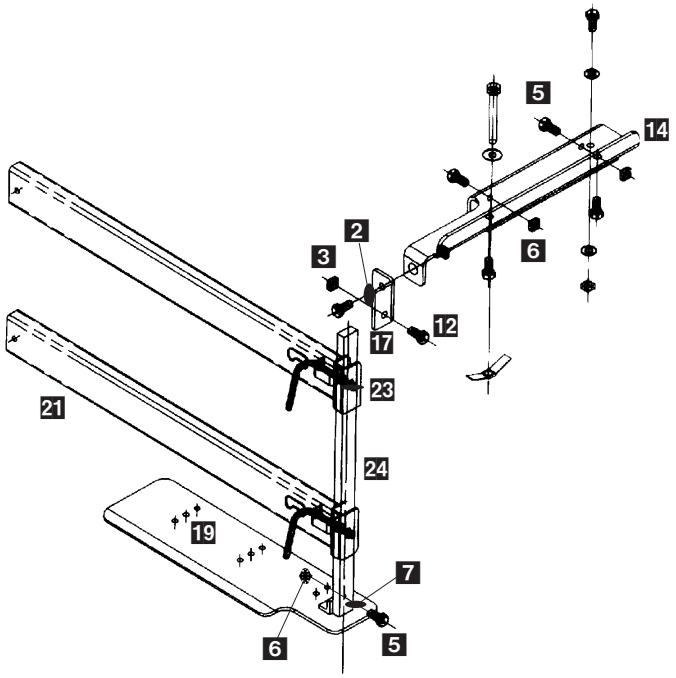
Pivot Mount

Model #PMT-175



NOTE: See Installation Warning (Packaged with Kit) Before Drilling Holes.



NOTE:
When installing the Pivot Mount, if any movement is noted with Rail Brackets due to weakened or altered conditions of pick-up bed, drill & bolt thru pre-punched Rail Brackets to assure firm mounting.

Key	Part No.	Description	Qty.
1	D 4116	1/2" 13 x 1 1/2" Hex Bolt	2
2	D 4119	1/2" Flat Washer	7
3	D 4120	1/2" Lock Nut	5
4	D 4121	3/8" 16 x 1" Hex Bolt	16
5	D 4122	3/8" 16 x 1 1/2" Hex Bolt	13
6	D 4124	3/8" Lock Nut	29
7	D 4125	3/8" Flat Washer	9
8	D 6138	5/16" Lock Nut	1
9	D 6139	5/16" 18 x 2" Hex Bolt	1
10	D 6141	1/2" Toggle	2
11	D 6142	1/2" 13 x 4" Hex Bolt Full Thread	2
12	D 6143	1/2" 13 x 1 1/4" Hex Bolt	3

Key	Part No.	Description	Qty.
13	D 6144	1/2" 13 x 3" Hex Bolt Full Thread	4
14	D 6200	Bed Rail Bracket Right	1
15	D 6201	Bed Rail Bracket Left	1
16	D 6202	Pivot Tube Assembly	1
17	D 6203	Angle Top	1
18	D 6204	Pivot/ Bumper Bracket	1
19	D 6205	Latch /Bumper Bracket	1
20	D 6206	Pivot Channel Assembly	2
21	D 6207	Latch Channel Assembly	2
22	D 6208	Rubber Tip Protector	4
23	D 6222	1/8" x 2-1/16" Hair Pin Clip	2
24	D 6223	Latch Bar	1

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Pivot Mount Installation Instructions

Step 1: Insert upper & lower pivot rails into main frame of spreader. Line up the pre-punched holes on the pivot rail with the main frame, then bolt together. Holes are pre-determined and can be relocated if spreader is not centered on vehicle.

Step 2: Locate top bed rail mounting brackets and set on top of pickup bed rails; Center by moving out towards the bumper. Maintain a minimum of 2" clearance between tailgate and spreader.

Step 3: Locate left & right bumper brackets. The left side or the pivot side will have a two piece system that will act as the hinge for the spreader. (See fig. D) The right side will have a two-piece system that will be the latching side. (See fig. H). Attach pivot tube and latch bar to the bumper plates using the posts as centering guides. Line up with the bed rail brackets. Be sure that the tailgate will open before locating any of these brackets permanently. Make sure bumper brackets are parallel to the lower main frame so that everything will be straight. After aligning all pieces, mark & drill holes using the bumper plates as a guide. (As seen in Fig. A) Once holes have been drilled, bolt securely to bumper. Note: Use a minimum of 3 holes.

Step 4: Locate toggle bolt assembly and install on left and right upper bed rail brackets as seen in (Fig. B). Position toggle bolt (Fig. C) to keep in position while tightening. Pull up on the bracket to keep a slight amount of pressure on the toggle bolt. * NOTE *: When tightening toggle bolt assembly, do not exceed 30 foot pounds of torque, or you may damage toggle assembly. Take the two 3" full threaded bolts and screw into bottom of bed rail brackets. Use rubber tip protectors on bolt end as seen in (Fig. E). Torque bolts down using a **HAND RATCHET ONLY** - you may also want to use a small amount of blue removable thread locker. Do this only as a final assembly once you have a proper tailgate clearance established.

Step 4A: Please make sure toggle is positioned so front to back in line with vehicle, this is very important. If the toggle makes contact with the rear inside surface of the pickup box, you may cause an internal dent that will show on the exterior of the box. Also you can damage the paint which can be very costly to repair, not to mention a huge inconvenience for everyone. Please take your time during this step and be sure it is done correctly.

Step 5: Now that the lower bumper brackets and upper bed rail brackets are mounted, you will now need to check both the pivot tube assembly and latch bar to see if these need to be cut down. Due to the variety of truck bumpers, bed rail heights, etc. We made these two parts intentionally too long. On the pivot side you will need to align the top of the pivot tube hole to the left side bed rail bracket hole. Trim off the amount needed with a cut off saw.

Step 6: Put this piece aside for now. Now that you have the pivot side assembly cut to length, mount spreader main frame assembly to truck. With an assistant, place pivot side of spreader on truck. Take pivot tube assembly and insert through pivot rails to the bumper plate locator tube. Take and bolt the upper pivot tube assembly to the bed rail bracket. (Make sure bed rail bracket is secure) Swing spreader until both support pads on lower main frame rail are completely on the bumper. Drill a 5/16" hole, (as seen in Fig. D) and bolt lower portion of pivot tube assembly. This will now complete pivot side installation.

Step 7: The latching side will be done the same way, except that you will need to mount the locator bracket to the right side bed rail bracket (see Fig F, G, H). Once you have completed, trim flush with the top of the locator bracket. After cutting bar to proper length, drill a 1/2" hole in mounting bar. Bolt the upper portion and the lower portion of the latching bar.

Step 8: Locate latching rails and insert into spreader main frame, position the latch rails so they are latched to the latching bar. Center latching bar in the pocket of the end of the latch rail. (see Fig. F) This will insure proper latching when closing spreader.

Step 9: Using an assistant or a large vice grip to insure rails do not move, drill three 3/8" holes using the pre-punched holes as a guide. Repeat this process for the lower rail also. Bolt together. This completes the latch side of the pivot mount.

Step 10: Drill four more 3/8" holes as seen in (Fig I) to stiffen the whole frame/rail system. Bolt together. This will insure minimum frame deflection under extreme load conditions.

Step 11: Make sure spreader is level and clear from the tailgate when closed. You can make minor adjustments by loosening the bed rail brackets (one at a time) and trimming the unit out. Also at this time you may want to apply a small amount of removable thread locker to insure the bolts stay secure.

Step 12: Lube zerk fittings on pivot tubes.

Step 13: IMPORTANT: When installing the Pivot Mount, if any movement is noticed with the bed rail brackets due to weakness or altered conditions of pickup bed, drill and bolt thru the pre-punched holes located on the sides of the bed rail brackets and bolt securely.

Step 14: After first use, tighten all nuts and bolts on mount and spreader.

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Pivot Mount Installation Diagrams

(See Instructions)

Fig. A

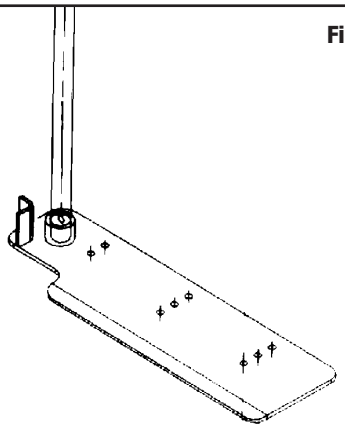


Fig. B

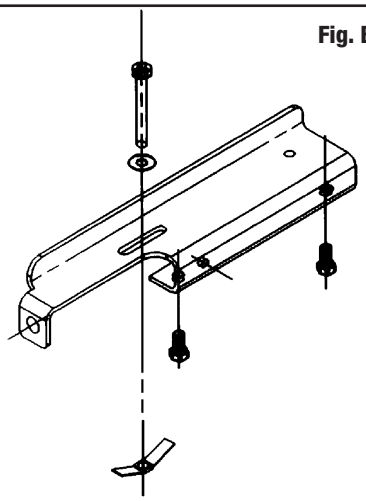


Fig. C

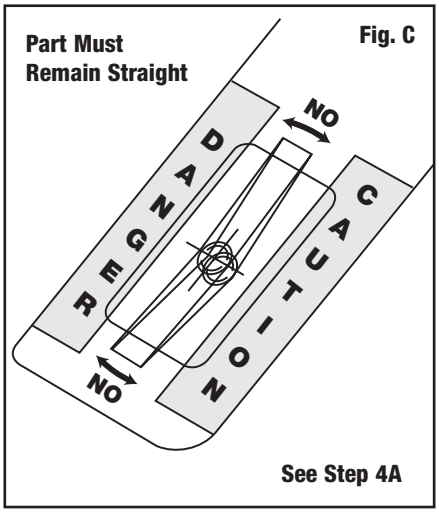


Fig. D

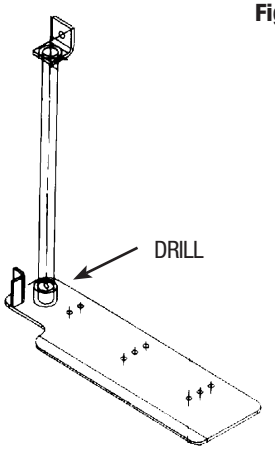


Fig. E

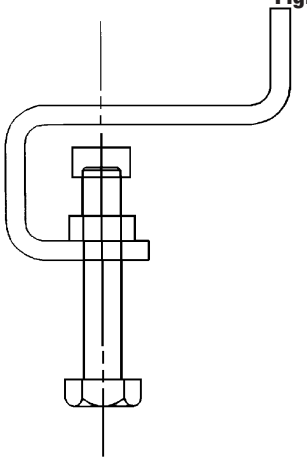


Fig. F

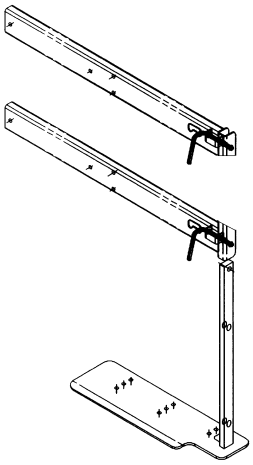


Fig. G

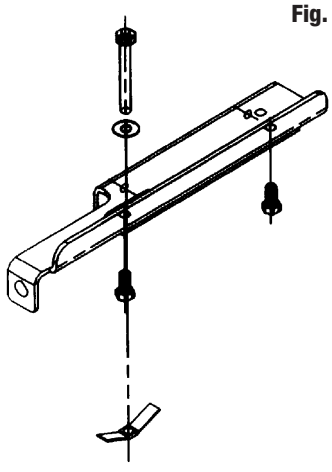


Fig. H

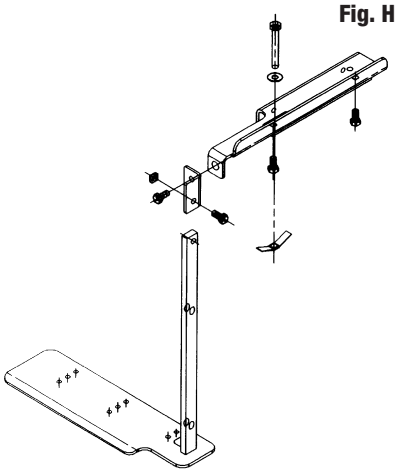
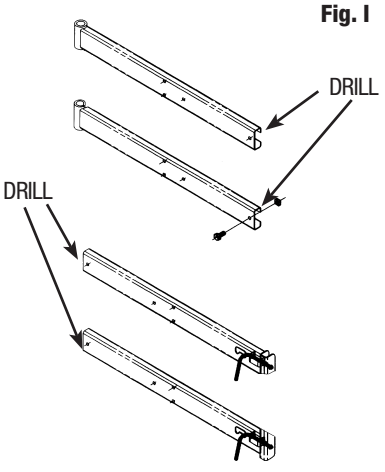


Fig. I



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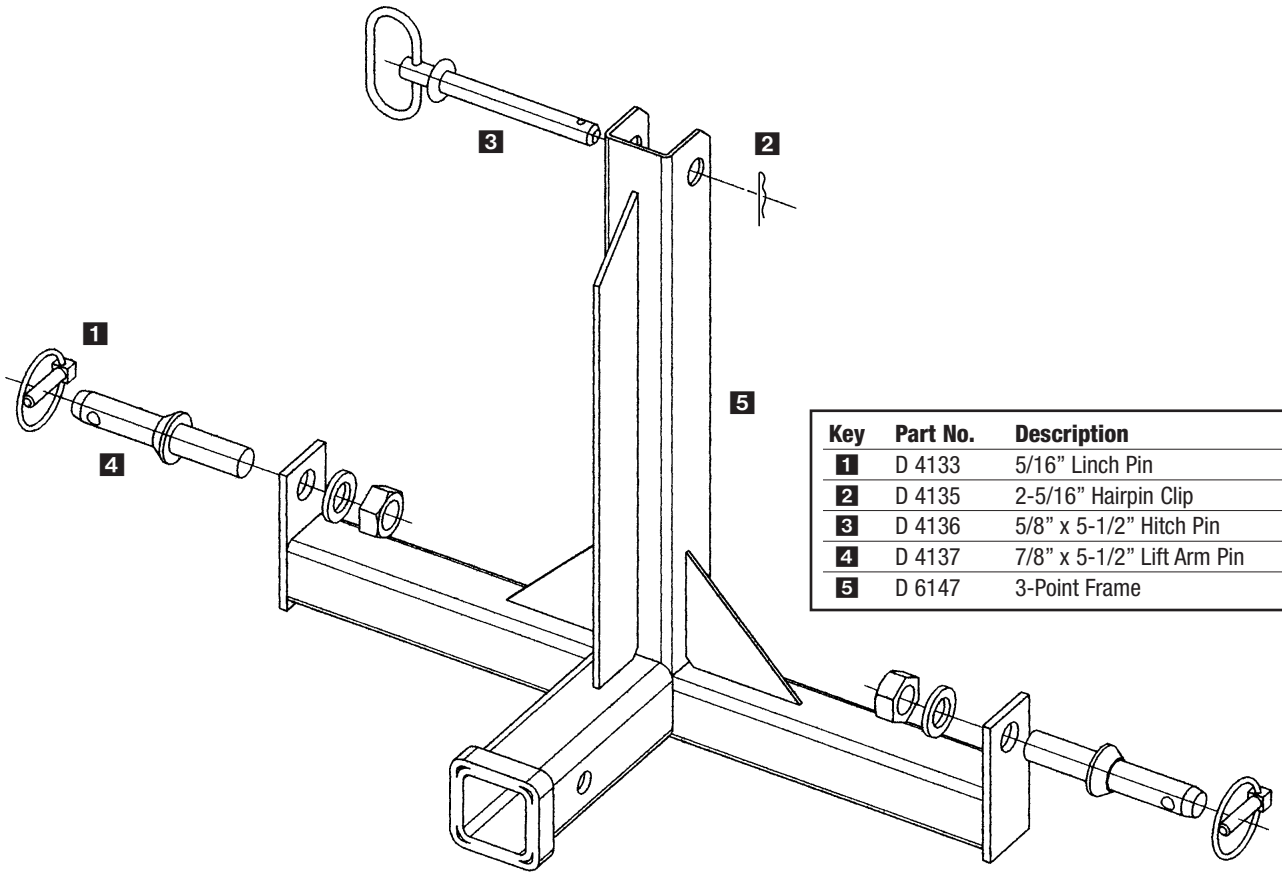
3-Point Mount

Model #TPM-175



Key	Part No.	Description	Qty.
1	D 4133	5/16” Linch Pin	2
2	D 4135	2-5/16” Hairpin Clip	1
3	D 4136	5/8” x 5-1/2” Hitch Pin	1
4	D 4137	7/8” x 5-1/2” Lift Arm Pin	2
5	D 6147	3-Point Frame	1

TRAILER MOUNT ASSEMBLY INSTRUCTIONS

Step 1: Insert axle through wheel and axle weldment.

Step 2: Put washer on then install hair pin clip to secure axle. Repeat Steps 1 & 2 for other side.

Step 3: Bolt tube support on axle weldment.

Step 4: Insert trailer tongue per drawing and pin into position.

Step 5: Insert spreader mount into opposite side of trailer tongue and pin into position.

CAUTION: MAXIMUM OF 240 LBS. GROSS WEIGHT CAN BE PUT ONTO TRAILER.

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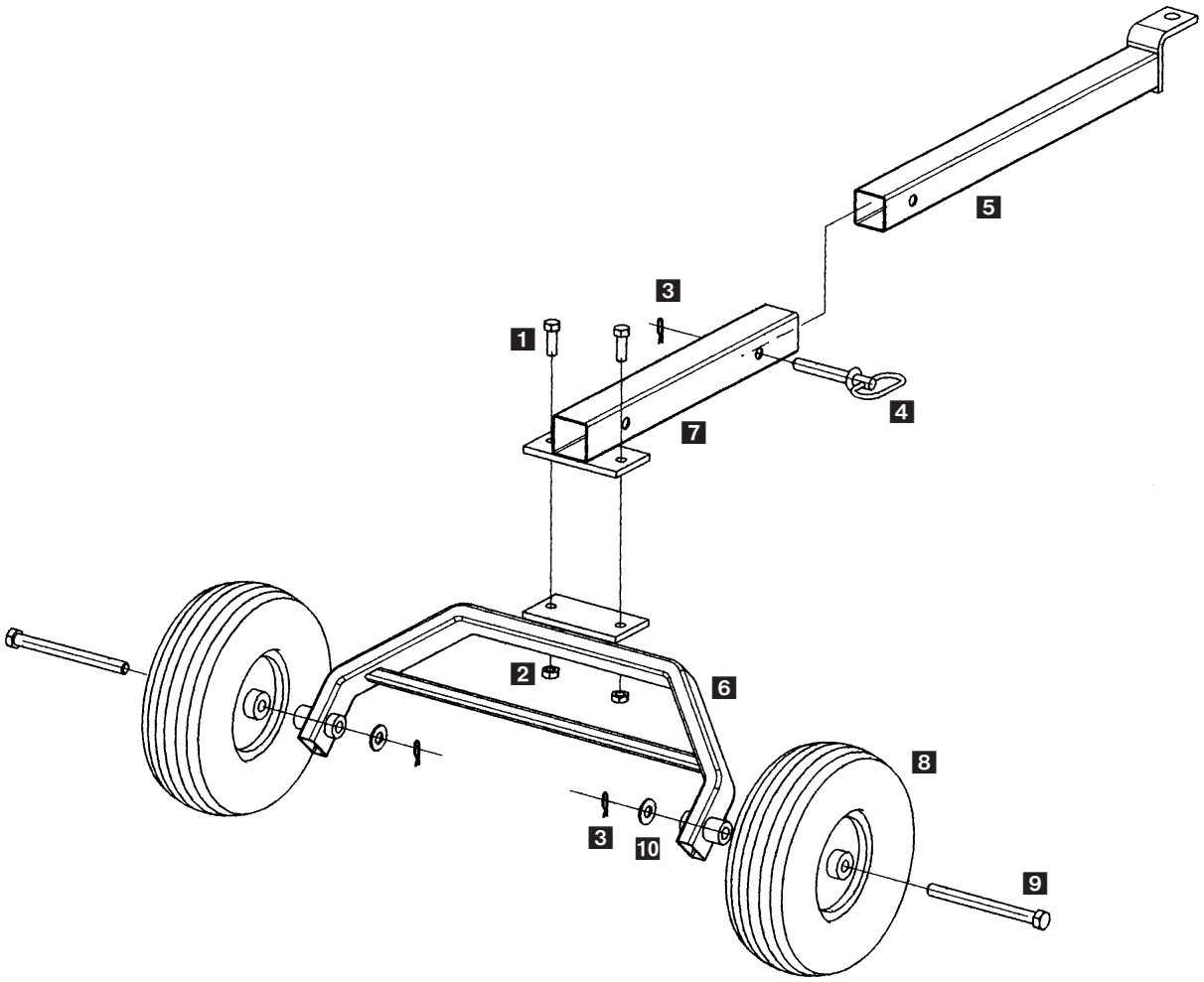
Trailer Mount

Model #TLR-175



MAXIMUM LOAD WEIGHT NOT TO EXCEED 240 LBS. GROSS

Key	Part No.	Description	Qty.
1	D 4116	1/2'' - 13 x 1-1/2'' Hex bolt	2
2	D 4120	1/2'' - Locknuts	2
3	D 4135	Hair pin clip	3
4	D 4136	5/8'' x 5 -1/2'' Hitch pin	1
5	D 6438	Trailer tongue	1
6	D 6439	Trailer “A” frame	1
7	D 6440	Receive tube mount	1
8	D 6441	Trailer tire	2
9	D 6442	5/8'' - 13 x 7'' Hex bolt special	2
10	D 6443	5/8'' Flat washers	2

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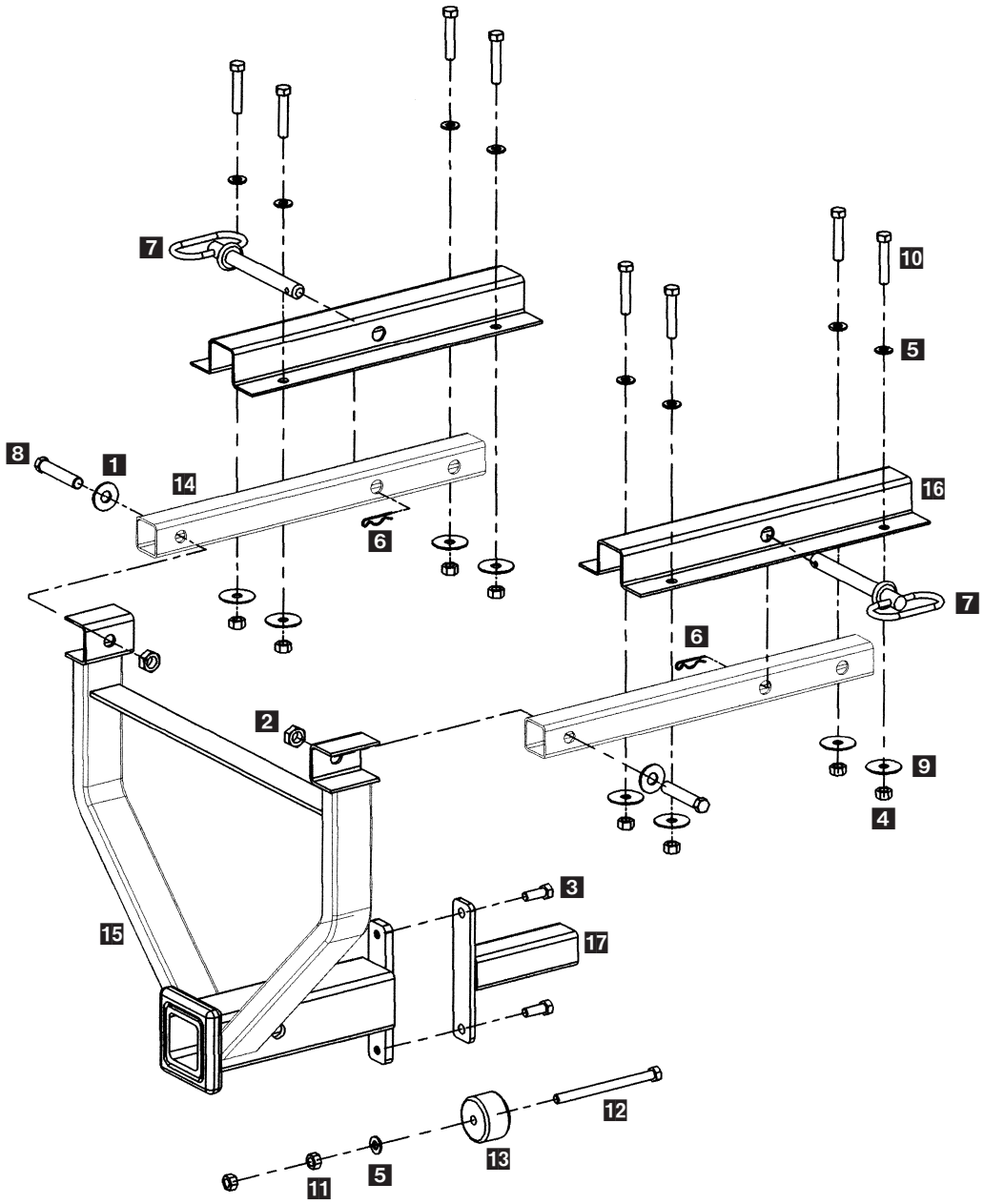
Drop Utility Mount

Model #DRM-175



Maximum Load Weight Not To Exceed 240 lbs. Gross

Key	Part No.	Description	Qty.
1	D 4119	1/2" Flat Washer	2
2	D 4120	1/2"-Lock Nut	2
3	D 4121	3/8"-16x1 Hex Bolt	2
4	D 4124	3/8"-Lock Nut	8
5	D 4125	3/8" Flat Washer	9
6	D 4135	2 - 5/16" Hair Pin Clip	2
7	D 4136	5/8" x 5-1/2" Hitch Pin	2
8	D 6246	1/2" - 13 x 2-1/2" Hex Bolt	2
9	D 4318	3/8" Fender Washer	8
10	D 6420	3/8" - 16 x 2 Truss Bolt Full Thread	8
11	D 6421	3/8" - 16 Hex Nut	2
12	D 6422	3/8" - 16 x 5" Hex Bolt	1
13	D 6423	2'' Rubber Stopper	1
14	D 6432	Mounting Rail	2
15	D 6434	Drop Mount Weldment	1
16	D 6435	Mounting Rail Hat Section	2
17	D 6436	Mule Adapter	1

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Drop Utility Mount Installation Instructions

MULE 550

Step 1: Temporarily remove the tailgate. Remove the bed liner if equipped.

Step 2: Bolt support rails to spreader mount with 1/2'' bolts. Install 1/2'' hex bolt with washer through rail first then spreader mount. Install 1/2'' locknut and tighten. Avoid over tightening to avoid potentially crushing tube.

Step 3: Place spreader mounting rails over spreader mount support rails and install pins. Locate the spreader bracket mounting rails on top of the bed by centering left to right and positioning the rear edged of the rails 5/8'' beyond the rear of the bed. Transferring mounting holes to bed & drill 7/16''.
Important: Check for proper clearance underneath bed before drilling holes.

Step 4: Bolt rails under belt with truss head bolts, fender washers, SAE washers and nylon lock nuts. Install the spreader bracket before tightening hardware. The tailgate and bed liner may be reinstalled now.

Step 5: Install 550 anti dump bracket with (2) 3/8'' bolts provided.

Step 6: Install gate control cable per attached instructions.

Step 7: Route cables at your discretion and install switch.

MULE 2500

The installation of the spreader on the 2500 is the same as the 550 with the following exceptions.

Step 1: When positioning the mounting rails the end of the rails should be 1/2'' forward of the rear edge of the bed.

Step 2: The universal anti dump threads into the lower weld nut on the spreader bracket assembly. Adjust rubber bumper to be 1/2'' to 3/4'' behind the rear axle - receiver hitch assembly.

CLUB CAR CARRYALL

Step 1: Remove the bed tailgate and bottom angle trim. Also remove the 2 rear carriage bolts from the floor of the bed.

Step 2: Place spreader mounting rails over spreader mount and install pins. Locate the 2 front outside mounting rails over the holes from the carriage bolts remove in step 1.

Step 3: Install truss head bolts, fender washers, SAE washers and nylon lock nuts in the carriage bolt holes. Transfer the remaining mounting rail holes and bolt rails into bed.

JOHN DEERE GATOR

Step 1: Remove the bed tailgate.

Step 2: Place spreader mounting rails over spreader mount and install pins.

Step 3: Locate the spreader bracket mounting rails on top of the bed by centering left to right, push main mount flush up against rear of bed to locate mounting rails. Transfer mounting holes to bed.

Step 4: Install mounting rails with truss head bolts, fender washers, SAE Washers and nylon lock nuts in the 1/2'' mounting holes.

Step 5: The universal anti dump threads into the lower weld nut on the spreader bracket assembly. The rubber bumper should be adjusted to rest against the frame of the vehicle. The trailer hitch bracket may need to be relocated depending on configuration.

CAUTION: MAXIMUM WEIGHT NOT TO EXCEED 240 LBS.

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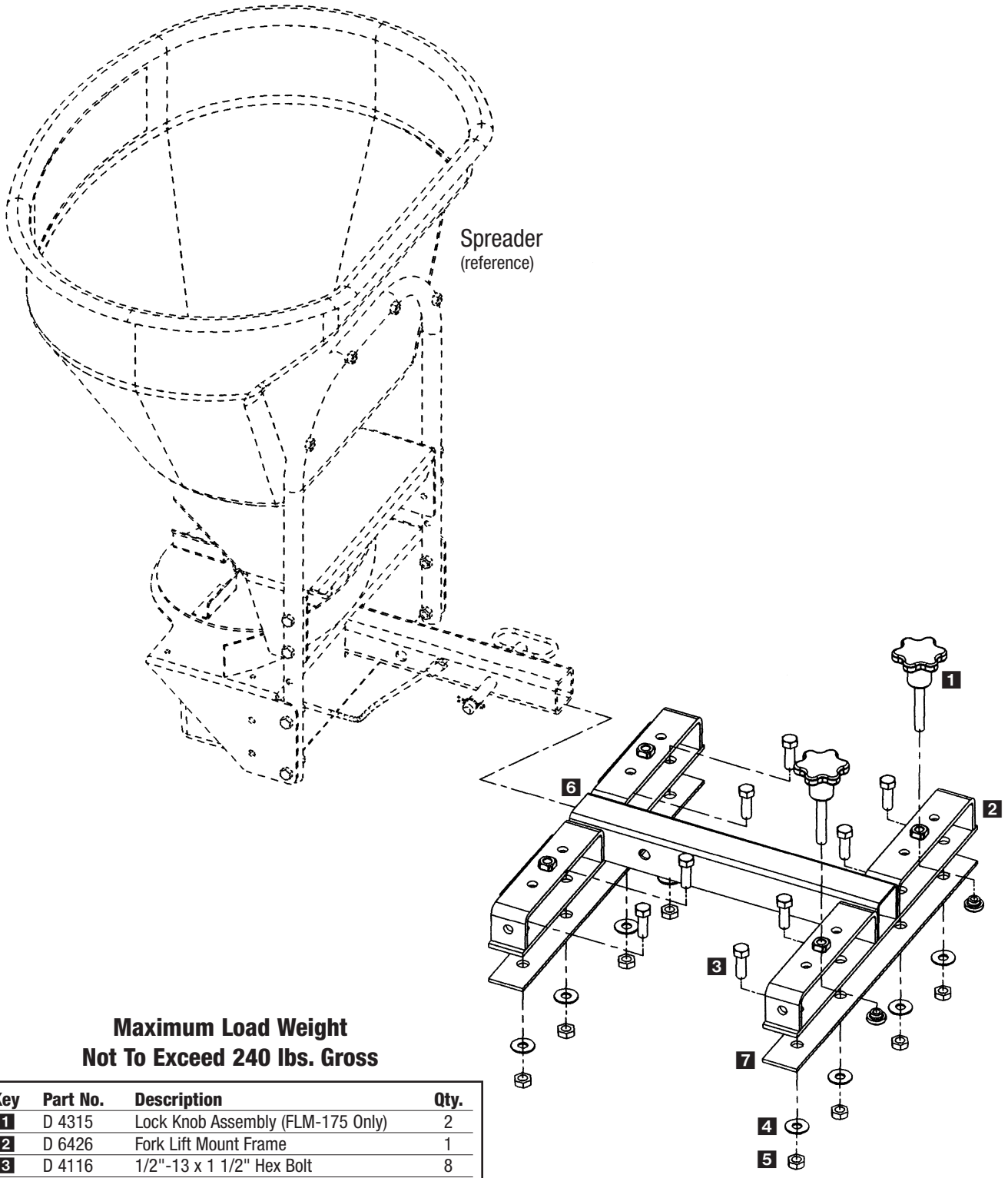
Utility Mount

Model #UTM/FLM-175



Maximum Load Weight
Not To Exceed 240 lbs. Gross

Key	Part No.	Description	Qty.
1	D 4315	Lock Knob Assembly (FLM-175 Only)	2
2	D 6426	Fork Lift Mount Frame	1
3	D 4116	1/2"-13 x 1 1/2" Hex Bolt	8
4	D 4119	1/2" Flat Washer	8
5	D 4120	1/2" Lock Nut	8
6	D 6148	Utility Receiver	1
7	D 6235	Underbody Support Plate	2

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Whenever service is necessary, your local SnowEx Dealer knows your Spreader best. Take your Spreader to your local dealer for any maintenance or service needs on your unit. If this is not possible, the Troubleshooting Guide below may assist you in identifying the problem.
Warning: First read all warning instructions and safety messages before servicing your spreader.

Preliminary Checks
- Be sure all electrical connections are tight and clean.
- Be sure nothing is jammed in the hopper.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor doesn't run.	Loose electrical connections.	Check all connections.
	Blown Fuse.	Replace fuse.
	Motor Seized.	Replace motor.
Controller shut down.	Jammed auger.	Carefully clear jammed material.
	Poor electrical connections.	Clean or replace connectors. Use dielectric grease.
	Electrical short.	Check electrical connections. Check for bare wires.
	Controller failure.	Replace controller.
Material not flowing from hopper.	Empty hopper.	Fill hopper.
	Wet material.	Replace with dry material.
	Frozen or coarse material.	Replace material.
	Spinner not turning.	Check drive assembly.
	Auger loose on shaft.	Tighten locking bolt on the side of the auger. There is a flat machined on the driver shaft. Align the auger with this flat and tighten the bolt.
	Vibrator not working.	Replace vibrator
Audible alarm beeping and display shows OL or OH.	Jammed auger, overload shut down.	Turn off for three seconds, then restart. If shut down continues, turn off controller. Clear debris and lumps from auger areas.
Audible alarm beeping display shows E1.	Short in system.	Turn off. Do not use until problem is corrected.
Audible alarm beeping display shows E0.	Motor is not getting power.	Turn off. Check all connections.
Audible alarm beeping display shows LB.	Vehicle battery is extremely low, or a poor connection exists.	Turn off. Charge battery.

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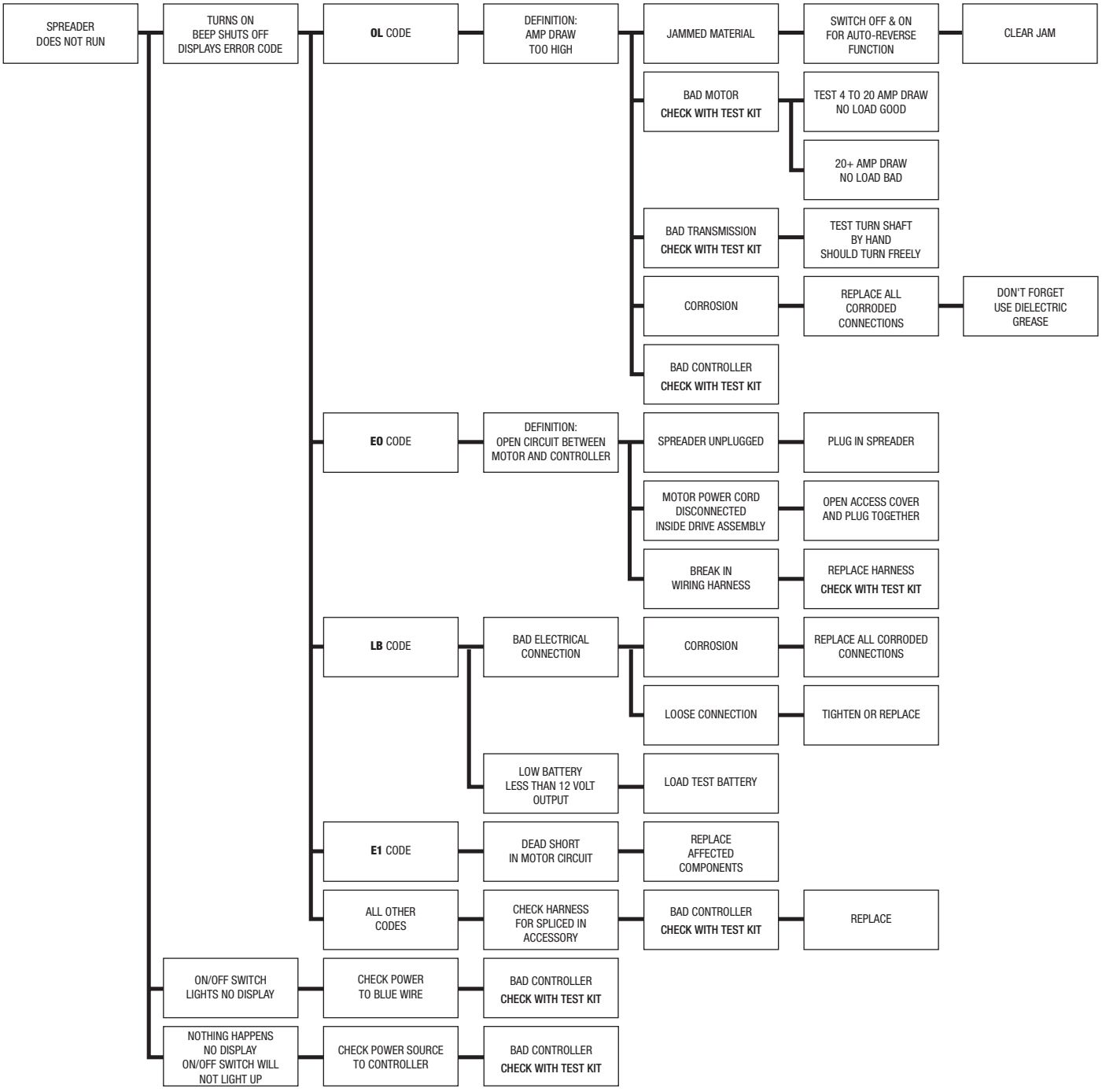
SPREADER DOES NOT RUN
TURNS ON BEEP SHUTS OFF DISPLAYS ERROR CODE
OL CODE
DEFINITION: AMP DRAW TOO HIGH
JAMMED MATERIAL
SWITCH OFF & ON FOR AUTO-REVERSE FUNCTION
CLEAR JAM
BAD MOTOR CHECK WITH TEST KIT
TEST 4 TO 20 AMP DRAW NO LOAD GOOD
20+ AMP DRAW NO LOAD BAD
BAD TRANSMISSION CHECK WITH TEST KIT
TEST TURN SHAFT BY HAND SHOULD TURN FREELY
CORROSION
REPLACE ALL CORRODED CONNECTIONS
DON'T FORGET USE DIELECTRIC GREASE
BAD CONTROLLER CHECK WITH TEST KIT
E0 CODE
DEFINITION: OPEN CIRCUIT BETWEEN MOTOR AND CONTROLLER
SPREADER UNPLUGGED
PLUG IN SPREADER
MOTOR POWER CORD DISCONNECTED INSIDE DRIVE ASSEMBLY
OPEN ACCESS COVER AND PLUG TOGETHER
BREAK IN WIRING HARNESS
REPLACE HARNESS CHECK WITH TEST KIT
LB CODE
BAD ELECTRICAL CONNECTION
CORROSION
REPLACE ALL CORRODED CONNECTIONS
LOOSE CONNECTION
TIGHTEN OR REPLACE
LOW BATTERY LESS THAN 12 VOLT OUTPUT
LOAD TEST BATTERY
E1 CODE
DEAD SHORT IN MOTOR CIRCUIT
REPLACE AFFECTED COMPONENTS
ALL OTHER CODES
CHECK HARNESS FOR SPLICED IN ACCESSORY
BAD CONTROLLER CHECK WITH TEST KIT
REPLACE
ON/OFF SWITCH LIGHTS NO DISPLAY
CHECK POWER TO BLUE WIRE
BAD CONTROLLER CHECK WITH TEST KIT
NOTHING HAPPENS NO DISPLAY ON/OFF SWITCH WILL NOT LIGHT UP
CHECK POWER SOURCE TO CONTROLLER
BAD CONTROLLER CHECK WITH TEST KIT

SNOWEX DIAGNOSTIC TEST KIT (STK-020) IS AVAILABLE TO ACCURATELY DIAGNOSE ANY ISSUES WITH SNOWEX SPREADERS. CALL YOUR DEALER FOR DETAILS.

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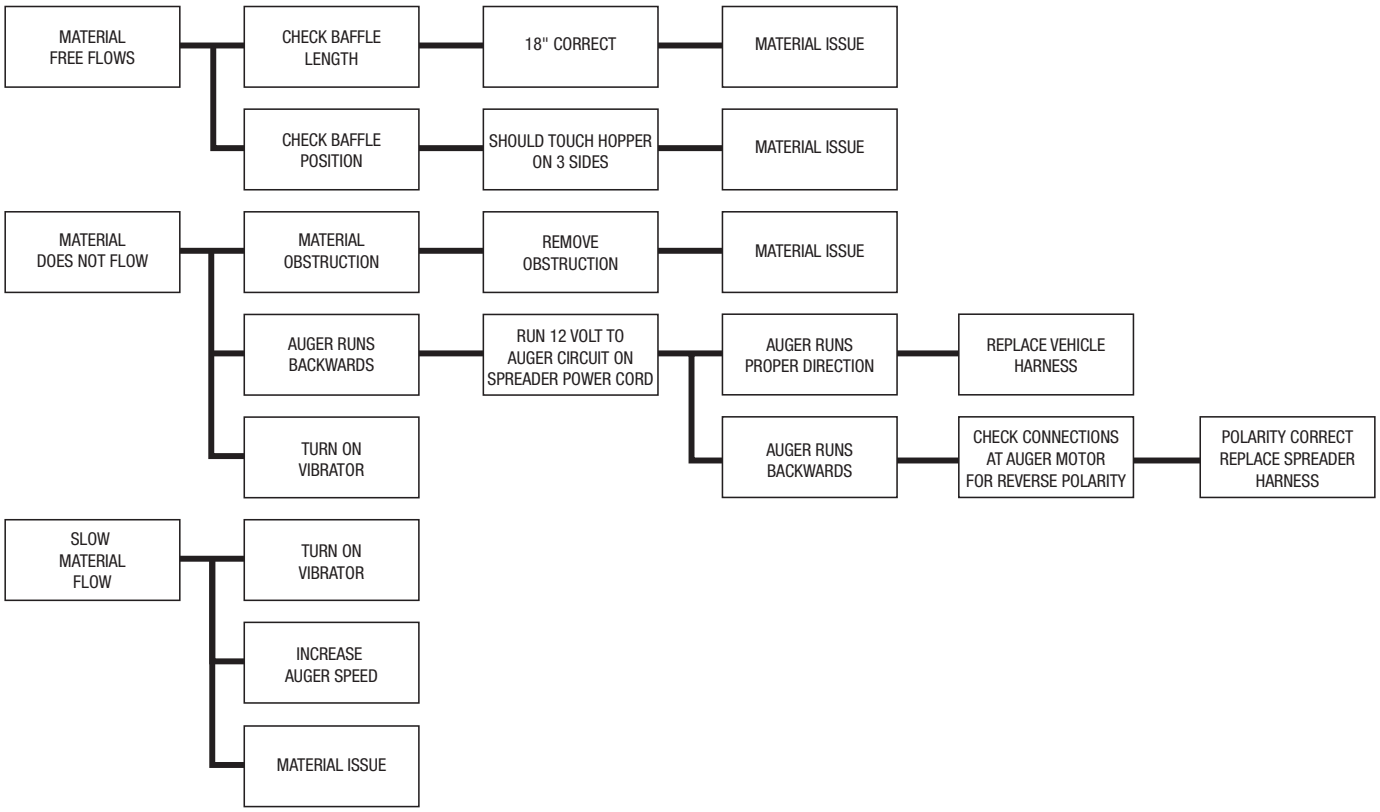
SP-1875 Material Flow



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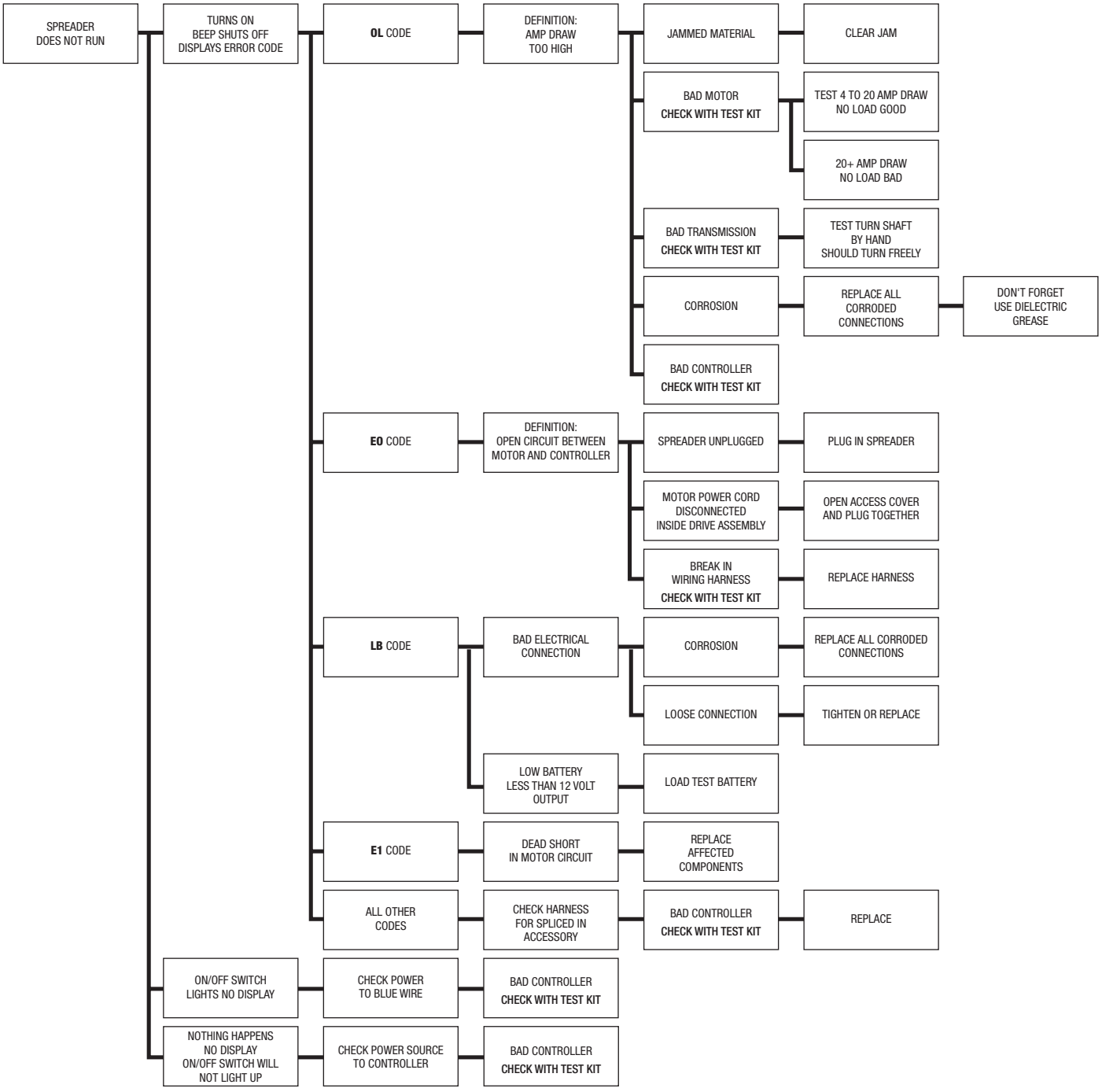
SPREADER DOES NOT RUN
TURNS ON BEEP SHUTS OFF DISPLAYS ERROR CODE
OL CODE
DEFINITION: AMP DRAW TOO HIGH
JAMMED MATERIAL
CLEAR JAM
BAD MOTOR CHECK WITH TEST KIT
TEST 4 TO 20 AMP DRAW NO LOAD GOOD
20+ AMP DRAW NO LOAD BAD
BAD TRANSMISSION CHECK WITH TEST KIT
TEST TURN SHAFT BY HAND SHOULD TURN FREELY
CORROSION
REPLACE ALL CORRODED CONNECTIONS
DON'T FORGET USE DIELECTRIC GREASE
BAD CONTROLLER CHECK WITH TEST KIT
E0 CODE
DEFINITION: OPEN CIRCUIT BETWEEN MOTOR AND CONTROLLER
SPREADER UNPLUGGED
PLUG IN SPREADER
MOTOR POWER CORD DISCONNECTED INSIDE DRIVE ASSEMBLY
OPEN ACCESS COVER AND PLUG TOGETHER
BREAK IN WIRING HARNESS CHECK WITH TEST KIT
REPLACE HARNESS
LB CODE
BAD ELECTRICAL CONNECTION
CORROSION
REPLACE ALL CORRODED CONNECTIONS
LOOSE CONNECTION
TIGHTEN OR REPLACE
LOW BATTERY LESS THAN 12 VOLT OUTPUT
LOAD TEST BATTERY
E1 CODE
DEAD SHORT IN MOTOR CIRCUIT
REPLACE AFFECTED COMPONENTS
ALL OTHER CODES
CHECK HARNESS FOR SPLICED IN ACCESSORY
BAD CONTROLLER CHECK WITH TEST KIT
REPLACE
ON/OFF SWITCH LIGHTS NO DISPLAY
CHECK POWER TO BLUE WIRE
BAD CONTROLLER CHECK WITH TEST KIT
NOTHING HAPPENS NO DISPLAY ON/OFF SWITCH WILL NOT LIGHT UP
CHECK POWER SOURCE TO CONTROLLER
BAD CONTROLLER CHECK WITH TEST KIT

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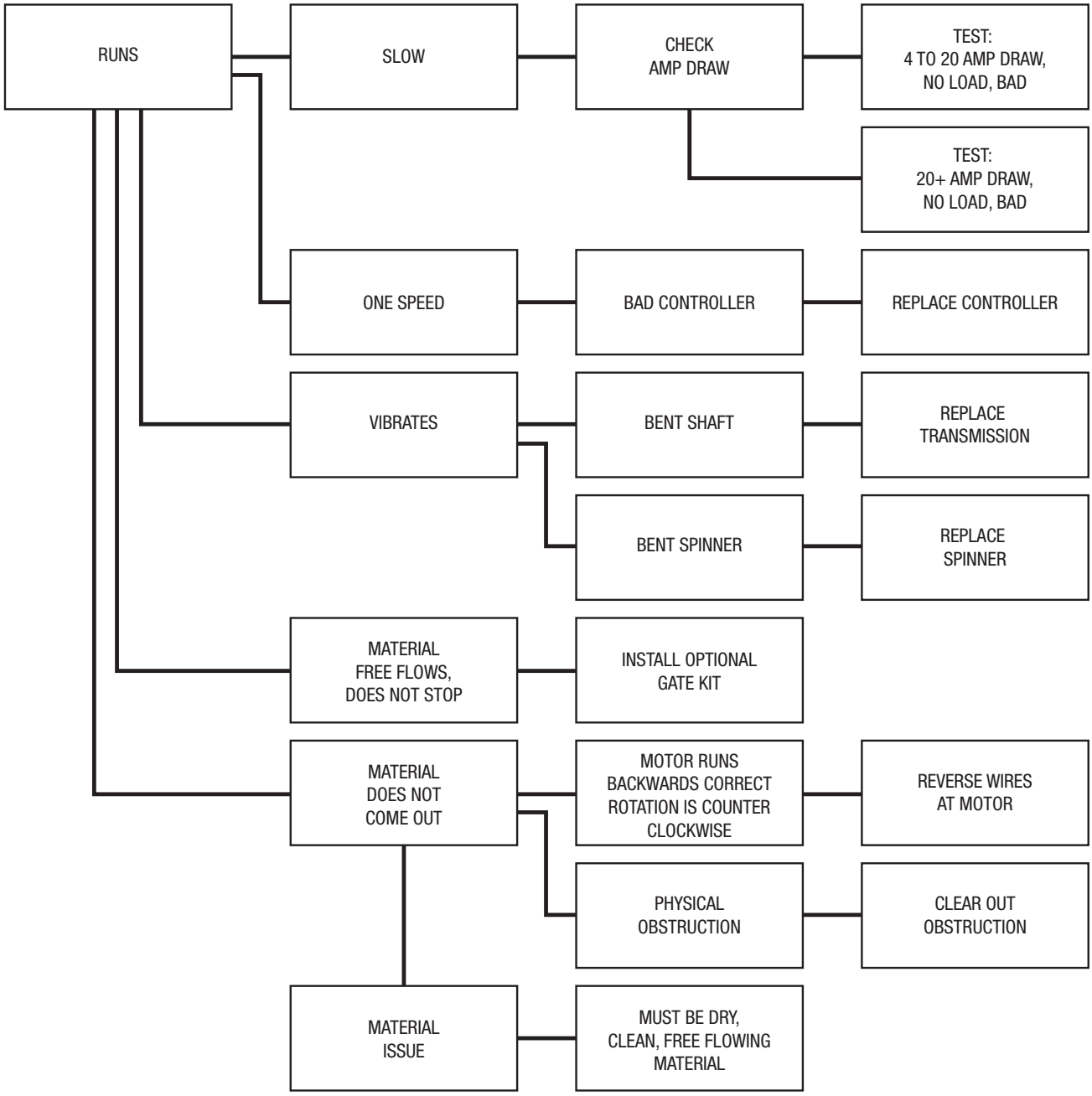

NOTE: Optional Vibrator Kit Available, To Increase Material Flow

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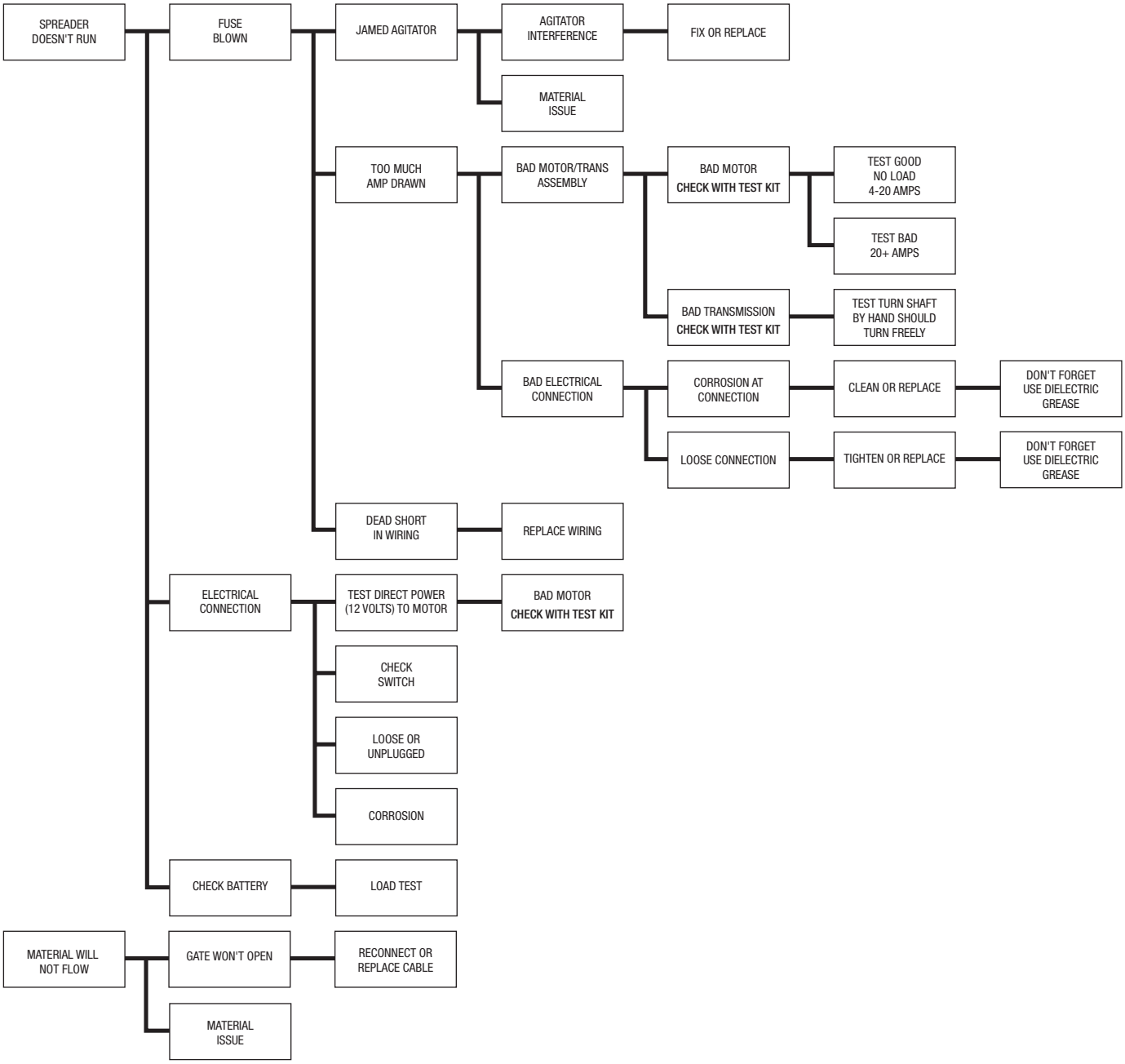

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- **WARNING –** When servicing is necessary, perform it in a protected area. Do not use power tools in rain or snow because of danger of electrical shock or injury. Keep area well lighted. Use proper tools. Keep the area of service clean to help avoid accidents.
- **WARNING –** Disconnect electricity to spreader before servicing.
- **CAUTION –** The controller is a solid state electronic unit and is not serviceable. Any attempt to service will void warranty.
- **CAUTION –** There are no serviceable parts in the motor/transmission assembly. Any attempt to service will void warranty.
- **CAUTION –** When replacing parts, use only original manufacturer's parts. Failure to do so will void warranty.
- Use dielectric grease on all electrical connections to prevent corrosion at the beginning and end of the season and each time power plugs are disconnected.
- Wash unit after each use to prevent material build-up and corrosion.
- **CAUTION – When pressure washing motor enclosure area, stay at least 36" away from motor enclosures.**
- Paint or oil all bare metal surfaces at the end of the season.
- Apply small amount of light oil to latches as needed.
- If motor cover is removed for any reason, use silicone sealant to ensure weather proofing of enclosure.
- Grease bearings after every 20 hours use (SP-1875 only).
- After first use, tighten all nuts and bolts on spreader and mount.
- Apply a small amount of oil on gate cable to prevent corrosion and maximize the cable life (SP-375 & GAK-020).
- Keep pivot assembly well greased to prevent corrosion (PMT-175).

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Adjustable Deflector	Helps limit spread pattern.
Gate Assembly Kit	Control and calibrate dry free flowing material.
Top Screen	Prevents large material from entering hopper.
Vibrator Kit	Helps improve the flow of moist materials.

Limited Warranty

Snowex products are warranted for a period of two years from the date of purchase against defects in material or workmanship under normal use and service, subject to limitations detailed below. Warranty period of two years begins on the date of purchase by the original retail user.

The **WARRANTY REGISTRATION CARD** must be returned to the manufacturer for this warranty to become effective. This warranty applies to the original retail purchaser only. This warranty does not cover damages caused by improper installation, misuse, lack of proper maintenance, alterations or repairs made by anyone other than authorized Trynex dealers or Trynex personnel. Due to the corrosive properties of the materials dispensed by spreaders, Trynex does not warrant against damage caused by corrosion. Warranty claims by the user must be made to the dealer from where the product was purchased, unless otherwise authorized by Trynex. Trynex reserves the right to determine if any part is defective and to repair or replace such parts as it elects. This warranty does not cover shipping costs of defective parts to or from the dealer.

LIMITATION OF LIABILITY

Neither Trynex, nor any company affiliated with it, makes any warranties, representations for promise as to the performance or quality other that what is herein contained. The liability of Trynex to the purchaser for damages arising out of the manufacture, sale, delivery, use or resale of this spreader shall be limited to and shall not exceed the costs of repair or replacement of defective parts. Trynex shall not be liable for loss of use, inconvenience or any other incidental, indirect or consequential damages, so the above limitations on incidental or consequential damages may not apply to you.

NO DEALER HAS AUTHORITY TO MAKE ANY REPRESENTATION OR PROMISE ON BEHALF OF TRYNEX INTERNATIONAL, OR TO ALTER OR MODIFY THE TERMS OR LIMITATIONS OF THIS WARRANTY IN ANY WAY.

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Warranty Registration and Customer Survey

To initiate the warranty on your new SnowEx spreader and assure prompt warranty service, please complete the following warranty registration and customer survey, sign and mail it back to the factory within 30 days of purchase.

1) Date of Purchase: _____

2) Name: _____

Address: _____

_____

Phone: _____

3) SnowEx Model Purchased: _____ Serial Number: _____

4) Is this your first Trynex Spreader? ❑ Yes ❑ No

5) What type of vehicle are you using with your Spreader?

Make _____ Model _____ Year _____

6) What type of material are you using in your spreader? _____

7) SnowEx Dealer Name: _____

SnowEx Dealer Address: _____

_____

SnowEx Dealer Phone: _____

8) Does your Trynex Dealer stock Trynex replacement Parts? ❑ Yes ❑ No ❑ I don't know

9) Do you feel your Trynex Dealer sold you the correct product for your needs/application? ❑ Yes ❑ No

10) How would you rate your overall satisfaction with your SnowEx Dealer?	❑ Very Satisfied	❑ Satisfied	❑ Somewhat Satisfied	❑ Somewhat Dissatisfied	❑ Dissatisfied	❑ Very Dissatisfied
11) How would you rate your overall satisfaction with your SnowEx Product?	❑ Very Satisfied	❑ Satisfied	❑ Somewhat Satisfied	❑ Somewhat Dissatisfied	❑ Dissatisfied	❑ Very Dissatisfied

12) Would you purchase another Trynex Product? ❑ Yes ❑ No

13) Please use the space below to convey your comments and/or suggestions.

_____

_____

_____

_____

_____

NOTE: I have read the owner's manual and all safety precautions and I understand that this equipment could be dangerous if not operated with care and under the proper conditions.

14) Owner's signature: X _____

PLEASE FOLD AND SEAL WITH TRANSPARENT TAPE BEFORE MAILING.

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Warm Up to SnowEx®

with a

FREE

Winter Hat!

Simply Fill Out Your Warranty Registration and Return It to the Factory!

From:

_____

_____

_____

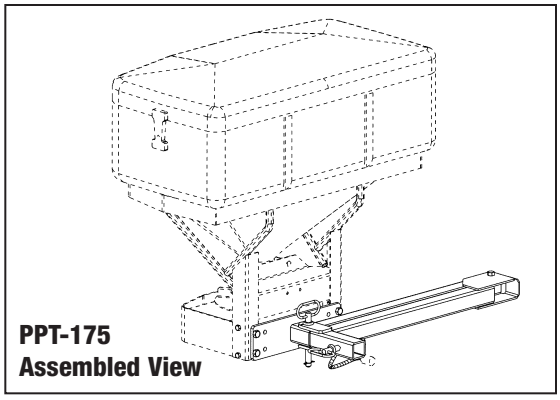
Postage Required
Post Office will not deliver without proper postage.

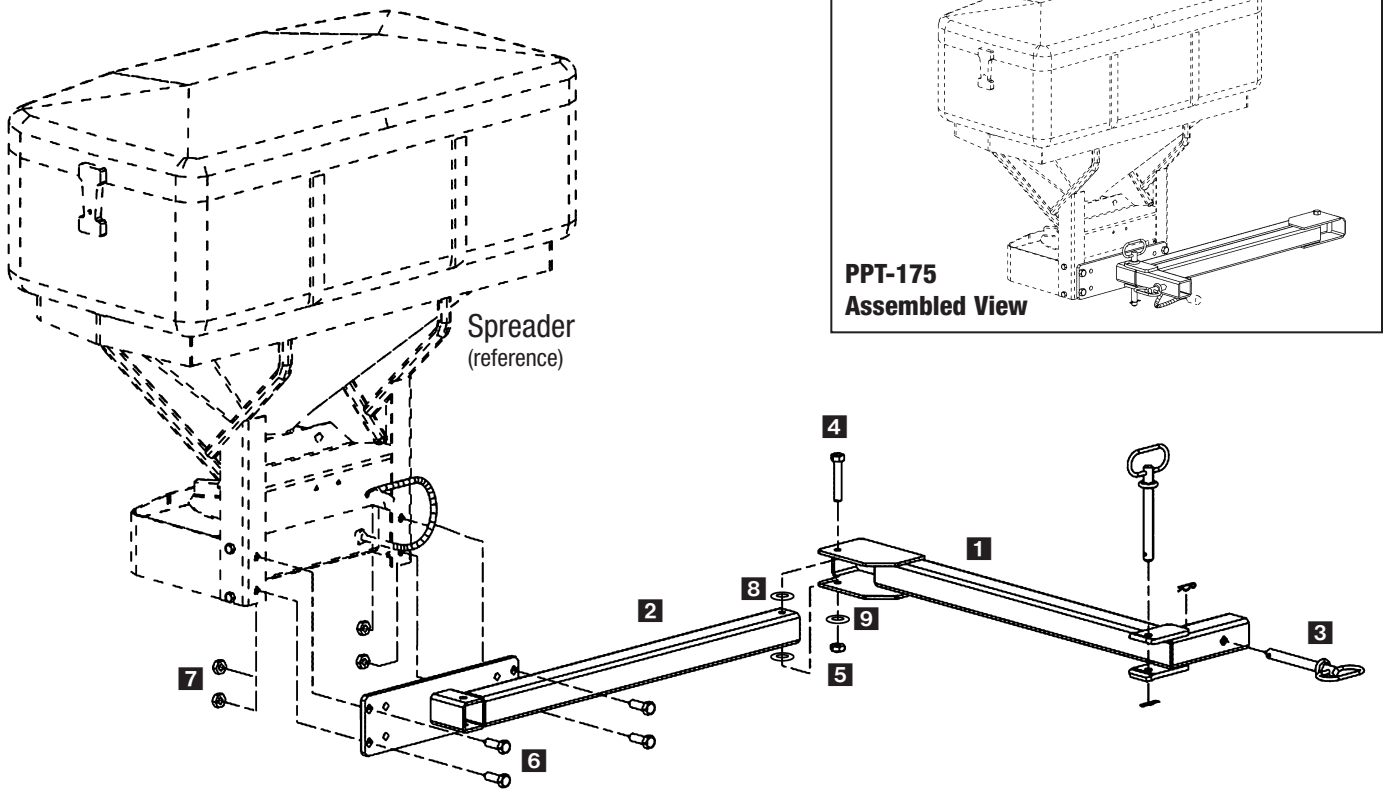
TRYNEX® INTERNATIONAL

23455 REGENCY PARK DR.
WARREN MI 48089-2667

Pivot Mount

Model #PPT-175





PIVOT MOUNT ASSEMBLY INSTRUCTIONS

Step 1: Assemble spreader swing arm **2** to spreader hitch arm **1** with **8** & **9** and **4** & **5** nut and bolt. Do not over tighten since this since this may cause to bind and will not swing open freely.

Step 2: Collapse assembly and install **3** hitch pin to keep assembly from opening.

Step 3: Remove existing 1/2" bolts from spreader drive assembly and mount spreader arm assembly to spreader (see illustration). Re-tighten hardware per illustration.

Step 4: With assistance, lift spreader into position and insert into vehicle receiver mount. Install **3** hitch pin with clip.

Step 5: Remove swing arm hitch pin and swing spreader out and to the driver's side, at this time use a spray lubricant such as automotive lithium type or a grease based product. This will help prevent unwanted corrosion in the pivot joint; this should be checked on a regular basis during the season.

Step 6: Close spreader and re-install hitch pin with clip.

Step 7: Plug spreader into vehicle spreader harness and test for power on.

Key	Part No.	Description	Qty.
1	D 6051	Hitch Arm	1
2	D 6050	Swing Arm	1
3	D 4136	Hitch Pin	2
4	D 6052	1/2" x 2-1/2" Shoulder Bolt	1
5	D 4124	3/8" - 16 Nylon Hex Nut	1
6	D 4116	1/2" - 13 x 1-1/2" Hex Bolt	4
7	D 4120	1/2" - 13 Lock Nut	4
8	D 6049	1/2" Bronze Thrust Washer x 1/16"	2
9	D 6235	Underbody Support Plate	2

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